



US EPA RECORDS CENTER REGION 5



428091

February 5, 2010

Mr. Sam Chummar  
Work Assignment Manager  
U.S. Environmental Protection Agency (EPA)  
77 West Jackson Boulevard (SR-6J)  
Chicago, IL 60604

**Subject:** **Oversight Summary for January 25 through January 28, 2010 (Week 3)**  
**Plainwell Mill Site, Operable Unit No. 7 of**  
**Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site**  
**Plainwell, Allegan County, Michigan**  
**Remedial Action Contract (RAC) 2 No. EP-S5-06-02**  
**Work Assignment No. 041-RSBD-059B**

Dear Mr. Chummar:

SulTRAC has prepared the enclosed summary to document Phase II remedial investigation activities at the above-referenced site from January 25 through 28, 2010 (Week 3). Weyerhaeuser Company is the potentially responsible party for the site, and Conestoga-Rovers & Associates, Inc. (CRA), is its environmental contractor. Appendix A of this summary contains a photographic log of the investigation activities. Appendix B contains SulTRAC's field oversight notes. Appendix C contains SulTRAC's field sample log. Attachment 1 contains CRA's site maps with proposed sample locations.

If you have any questions about the enclosed summary, please call me at (312) 201-7491.

Sincerely,

A handwritten signature in black ink that appears to read "Jeffrey J. Lifka".

Jeffrey J. Lifka  
Project Manager

Enclosure

cc: Norvelle Merrill-Crawford, EPA Contracting Officer (letter only)  
Ron Riesing, SulTRAC Program Manager  
File

**ENCLOSURE**

**OVERSIGHT SUMMARY  
FOR JANUARY 25 THROUGH JANUARY 28, 2010 (WEEK 3)  
PLAINWELL MILL SITE  
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

(Seven Pages)

**OVERSIGHT SUMMARY  
FOR JANUARY 25 THROUGH JANUARY 28, 2010 (WEEK 3)  
PLAINWELL MILL SITE  
PLAINWELL, ALLEGAN COUNTY, MICHIGAN**

**SulTRAC Oversight Personnel:** Kristi Root and Tracey Koach  
**Reporting Period:** January 25 through 28, 2010 (Week 3)

**INTRODUCTION**

As requested by the U.S. Environmental Protection Agency (EPA) under contract number EP-S5-06-02 and work assignment number 041-RSBD-059B, SulTRAC conducted oversight and split sampling for Phase II of the Remedial Investigation (RI) for the Plainwell Mill Site, Operable Unit No.7 of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site in Plainwell, Michigan. Weyerhaeuser Company (Weyerhaeuser) is the potentially responsible party (PRP) for the site. Conestoga-Rovers & Associates, Inc. (CRA) is the environmental consultant to Weyerhaeuser.

As requested by EPA, SulTRAC began oversight activities at the site on January 11, 2010. This report summarizes SulTRAC's oversight activities and documentation of the PRP's Phase II activities during Week 3 of the RI from January 25 through 28, 2010; issues and developments that arose during the oversight activities; and future activities. Appendix A contains a photographic log of Week 3's site activities, including Photographs 1 through 8. Appendix B contains a copy of SulTRAC's field oversight notes. Appendix C contains SULTRAC's field sample log. Attachment 1 contains CRA's site maps with proposed sample locations.

## **RI ACTIVITIES**

During the third week of RI oversight activities conducted from January 25 through 28, 2010, SulTRAC observed CRA advancing soil borings and excavating test pits. CRA maintained two subsurface investigation crews on site. One drilling crew advanced soil borings throughout the week. The excavation crew excavated test pits Monday and half of Tuesday. Also, the drilling rigs were owned and operated by CRA.

During Week 3, CRA advanced 29 soil borings (SB-121, SB-123, SB-125, SB-126, SB-127, SB-129, SB-130, SB-131, SB-132, SB-133, SB-134, SB-135, SB-136, SB-137, SB-138, SB-139, SB-140, SB-141, SB-201, SB-202, SB-203, SB-204, SB-301, SB-302, SB-309, SB-310, SB-311, SB-312, and SB-321); and excavated eight test pits (Test Pit-308, 309, 310, 311, 312, 313, 314, and 315). Samples collected by CRA and SulTRAC during week 3 include: 81 subsurface soil samples (CRA) with 22 split samples (SulTRAC), in addition to three duplicates and one matrix spike/matrix spike duplicate (MS/MSD) (SulTRAC). Details for soil samples collected by CRA and SulTRAC are summarized in Appendix C. Sample locations are provided in CRA figures found in Attachment 1.

CRA collected soil samples from test pits and soil borings for analysis for volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), polychlorinated biphenyls (PCB), metals, Synthetic Precipitation Leaching Procedure (SPLP) metals, and general chemistry parameters, in addition to cyanide for selected soil borings. SulTRAC collected soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, and cyanide. SulTRAC hand delivered soil samples to be analyzed for cyanide and metals (including SPLP cyanide and metals) to its subcontractor laboratory, TriMatrix Laboratories, Inc. (TriMatrix) in Grand Rapids, Michigan. SulTRAC shipped all other split samples by overnight courier to an EPA Contract Laboratory Program (CLP) laboratory.

### **Monday, January 25, 2010**

At 8:00 a.m., SulTRAC representatives Kristi Root and Tracey Koach arrived on site. The weather was overcast, with temperatures in the low 30s degrees Fahrenheit (°F). CRA personnel on site included one drill crew (Geoprobe), one excavation crew, and three field technicians (David Rivers, Corrie Bondy, and Evan Varnas). The field project coordinator, Jodi Dembowske, was on site infrequently throughout the day. Prein & Newhof, a survey company hired by CRA, was on site periodically to locate monitoring

wells, test pits and soil borings. CRA collected soil borings and test pit soil samples for analysis for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry parameters, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, cyanide, and SPLP metals and SPLP cyanide. Details involving sample identification and sample times are provided in Appendix C.

At 8:55 a.m., the drilling crew started soil boring advancement in Area 1 at SB-130 to 20 feet below ground surface (bgs). Two samples were collected by CRA at this location: one from the 0- to 1-foot bgs interval and one from the 12.5- to 14.5-foot bgs interval; in addition, CRA collected a duplicate from the 12.5- to 14.5- foot bgs interval. SulTRAC did not collect any split samples at this location. At 9:55 a.m., CRA re-sampled from the 7.5- to 9.5-foot bgs interval at SB-126 because the original sample had broken in shipment. SulTRAC had collected a split sample with the original sample, and therefore re-sampled. At 10:40 a.m., the drilling crew advanced SB-131 to 20 feet bgs and collected two samples: one from the 0- to 1-foot bgs interval and one from the 6- to 8-foot bgs interval, where additional volume was collected for a MS/MSD. SulTRAC did not collect a split sample. At 11:20 a.m., the drill crew collected three samples at SB-129: one from the 0- to 1-foot bgs interval, one from the 6- to 8-foot bgs interval, and one from the 8- to 10-foot bgs interval. SulTRAC collected a split sample from the 6- to 8-foot bgs interval. At all soil boring locations where SulTRAC split with CRA, the soil was evenly dispersed among all sampling jars (see Photograph No. 1 in Appendix A), and VOC samples were collected alternatively—one CRA VOC sample and then one SulTRAC VOC sample. At 11:30 a.m., the drilling crew broke for lunch.

At around 8:50 a.m., the excavation crew began excavating in Area 3 at Test Pit 308 to 8.5 feet bgs (see Photograph No. 2 in Appendix A). Excavation equipment used was a Komatsu (Avance PC200) excavator with a 4-foot-wide, 3-foot-deep bucket. CRA collected three samples: one from the 0- to 1-foot bgs interval, one from the 1- to 2-foot bgs interval, and one from the 4- to 6-foot bgs interval. SulTRAC collected a split sample at Test Pit 308 from the 4- to 6-foot bgs interval. After CRA backfilled Test Pit 308, the excavation crew began excavating Test Pit 315 to 6.5 feet bgs in Area 3. CRA collected two samples, one each from the 0- to 1-foot bgs and the 4- to 6-foot bgs intervals. SulTRAC did not collect a split sample. CRA was to analyze the samples collected from Test Pit 308 and Test Pit 315 for cyanide. At 11:15 a.m., the excavation crew began excavation of Test Pit 309 to 8 feet bgs. CRA collected three samples: one each from 0- to 1-foot bgs, 3- to 4-foot bgs, and 6- to 8-foot bgs intervals. Additional volume was collected from the 6- to 8-foot bgs interval for a MS/MSD. SulTRAC collected a split sample from the 3- to 4-foot bgs interval. CRA backfilled Test Pit 309 before breaking for lunch.

At 12:15 p.m., the drilling crew advanced SB-127 to 20 feet bgs and collected three samples: one from the 0- to 1-foot bgs interval, one from 6.5- to 8.5-foot bgs interval, and one from the 10.5- to 12.5-foot bgs

interval. SulTRAC collected a split sample from the 10.5- to 12.5-foot bgs interval. At 1:35 p.m., the drilling crew advanced SB-125 to 20 feet bgs and collected samples at 0- to 1-foot bgs, 3- to 5-foot bgs, and 9.5- to 10- foot bgs intervals, in addition to a duplicate sample collected from the 3- to 5-foot bgs interval. SulTRAC did not collect any split samples from SB-125. At 3:00 p.m., the drilling crew advanced SB-123 to 20 feet bgs and collected two samples: one each from the 0- to 1-foot bgs and 7- to 9-foot bgs intervals. SulTRAC collected a split sample from the 7- to 9-foot bgs interval. At 3:50 p.m., the drilling crew advanced SB-121 to 20 feet bgs and collected three samples: one each from 0- to 1-foot bgs, 1- to 3-foot bgs, and 11- to 13-foot bgs intervals. SulTRAC collected a split sample from the 0- to 1-foot bgs interval. At 4:35 p.m., the drilling crew advanced SB-132 to 20 feet bgs and collected samples from the 0- to 1-foot bgs and 8- to 10-foot bgs intervals. SulTRAC did not collect a split sample.

At 1:10 p.m., the excavation crew began excavation activities at Test Pit 314 and collected three samples: one each from 0- to 1-foot bgs, 6- to 8-foot bgs, and 10- to 11-foot bgs intervals. SulTRAC did not collect a split sample from Test Pit 314. At approximately 2:40 p.m., the excavation crew began filling Test Pit 314 and mobilizing to Test Pit 312. Test Pit 312 was excavated to 7 feet bgs, and two samples were collected: one from the 0- to 1-foot bgs interval and one from the 5- to 7-foot bgs interval; in addition, a duplicate sample was collected from the 5- to 7-foot bgs interval.

Following completion of SB-132 and back filling of Test Pit 312, CRA discontinued drilling and excavation activities, and prepared samples for shipment. SulTRAC left the site at 5:00 p.m.

### **Tuesday, January 26, 2010**

At 8:00 a.m., SulTRAC representatives Kristi Root and Tracey Koach arrived on site. The weather was overcast, 25 °F, and snowing. CRA personnel on site included one drill crew (Geoprobe) and an excavator, three field technicians (David Rivers, Corrie Bondy, and Evan Varnas), and the field project coordinator (Jodi Dembowske). The field project coordinator was on site infrequently throughout the day. Prein & Newhof, a survey company hired by CRA, was on site periodically to locate monitoring wells, test pits, and soil borings. CRA collected soil samples from test pits and soil borings for analysis for VOCs (see Photograph No. 3 in Appendix A), SVOCs, PCBs, metals, SPLP metals, and general chemistry parameters, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings and test pits for analysis for VOCs, SVOCs, PCBs, metals, cyanide, and SPLP metals and cyanide. Details involving sample identification and sample times are provided in Appendix C. Test pit excavations for the three remaining tests pits were completed by mid-day and Tracey Koach started processing samples for the day.

CRA had one crew operating an excavator for test pit investigations and a second crew conducting subsurface investigations through use of a Geoprobe. At 8:30 a.m., the excavator mobilized to Test Pit 313 and excavated to 9 feet bgs. CRA collected three samples: one from the 2- to 4-foot bgs interval, one from the 4- to 6-foot bgs interval, and one from the 8- to 9-foot bgs interval. CRA collected a duplicate from the 4- to 6-foot bgs interval. SulTRAC also collected a split sample from the 8- to 9-foot bgs interval. At approximately 9:50 a.m., the excavation crew finished backfilling Test Pit 313 and mobilized to Test Pit 311. Test Pit 311 was excavated to 6 feet bgs, and CRA collected one sample each from the 0- to 2-foot bgs and 4- to 6-foot bgs intervals. SulTRAC did not collect a split sample from Test Pit 311. After backfilling Test Pit 311, the excavation crew mobilized to Test Pit 310 at 11:25 a.m. Test Pit 310 was excavated to 10 feet bgs, and CRA collected samples from the 1- to 2-foot bgs and 8- to 10-foot bgs intervals. SulTRAC collected one sample from the 1- to 2-foot bgs interval, as well as an additional volume at this interval for a duplicate. At 12:30 p.m., the excavation crew completed filling Test Pit 310 and started cleaning up excavation equipment, as Test Pit 310 had been the last test pit.

At 8:50 a.m., the drilling crew advanced their first soil boring at SB-133 to 20 feet bgs. At SB-133, CRA collected one sample each from the 0- to 1-foot bgs and 7- to 9-foot bgs intervals, a duplicate at the 7- to 9-foot bgs interval, and additional volume from the 0- to 1-foot bgs interval for a MS/MSD. The drilling crew continued to advance soil borings to 20 feet bgs for the remainder of the day. For the day, CRA had advanced eight soil borings, collected 16 samples, and collected three additional duplicate samples. SulTRAC had collected five split samples for the day.

At 4:15 p.m., CRA completed soil sampling for the day. At 5:00 p.m., SulTRAC left the site to deliver the samples for metals and cyanide analyses to TriMatrix in Grand Rapids and also ship CLP samples by FedEx. CRA also left at 5:00 p.m.

### **Wednesday, January 27, 2010**

At 8:00 a.m., SulTRAC representative Kristi Root arrived on site. Tracey Koach was on site frequently throughout the day but mostly prepared samples for shipment off site. The weather was overcast and 22 °F with light snow flurries and 10 to 15 miles per hour (mph) winds. CRA personnel on site included one drill crew (Geoprobe), two field technicians (David Rivers and Corrie Bondy), and the field project coordinator, Jodi Dembowske, who was on site infrequently throughout the day. CRA collected soil samples from soil borings for analyses for VOCs (see Photograph No. 4 in Appendix A), SVOCs, PCBs, metals, SPLP metals, and general chemistry parameters, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings for analyses for VOCs, SVOCs, PCBs, metals, cyanide, and

SPLP metals and SPLP cyanide. Details involving sample identification and sample times are provided in Appendix C.

At 8:25 a.m., the drilling crew started to advance SB-139 to 20 feet bgs. The drilling crew continued to advance soil borings to 20 feet bgs for the remainder of the day. For the day, CRA advanced eight soil borings, collected 17 samples, and collected three additional duplicate samples. SulTRAC collected five split samples in addition to one duplicate sample for the day. Soil borings SB-321 and SB-301 were offset less than 5 feet from the originally proposed locations to avoid utilities (see Photograph No. 5 in Appendix A). For surface samples (0- to 1-foot bgs) where an MS/MSD was collected, CRA used a silver spoon to fill an aluminum foil-lined bowl to obtain additional volume. VOC samples were still collected from soil boring liners. At SB-203, from sample interval 5- to 6-foot bgs, a white, soft, silty to clay material was found (see Photograph No. 6 in Appendix A).

At approximately 3:00 p.m, the weather became windy with heavy snow flurries. At 4:00 p.m., CRA completed soil sampling for the day. At 4:45 p.m., SulTRAC and CRA left the site for the day.

### **Thursday, January 28, 2010**

At 8:00 a.m., SulTRAC representative Kristi Root arrived on site. Tracey Koach was on site frequently throughout the day but mostly prepared samples for shipment off site. The weather was overcast and 14 °F with gusty winds of 20 to 25 mph and a wind chill of -2 °F. Three to 4 inches of snow had accumulated overnight. CRA personnel on site included one drill crew (Geoprobe), two field technicians (David Rivers and Corrie Bondy), and the field project coordinator, Jodi Dembowske, who was on site infrequently throughout the day. CRA collected soil samples from soil borings for analyses for VOCs, SVOCs, PCBs, metals, SPLP metals, and general chemistry parameters, in addition to cyanide for selected soil borings. SulTRAC collected split soil samples from soil borings for analyses for VOCs, SVOCs, PCBs, metals, cyanide, SPLP metals and SPLP cyanide. Details involving sample identification and sample times are provided in Appendix C

At 8:30 a.m., the CRA drilling crew began advancing SB-311 to 20 feet bgs (see Photograph No. 7 in Appendix A). The drilling crew continued to advance soil borings to 20 feet bgs for the remainder of the day. For the day, CRA advanced four soil borings, collected seven samples, and collected one additional duplicate sample. SulTRAC collected two split samples, in addition to one duplicate sample for the day. Due to cold temperatures, parts of the Geoprobe were freezing and had to be thawed out by a propane blow torch. Soil samples located within the water table were freezing once the liners were opened.

At 11:15 a.m., the CRA drilling crew started SB-312. Five attempts within a 3-foot offset of the original location at SB-312 proved unsuccessful, as all five attempts encountered refusal between 3.5 and 4.5 feet bgs (see Photograph No. 8 in Appendix A). Because utilities cleared only a 3-foot offset, CRA collected only a surface sample and did not try to drill deeper outside of the cleared 3-foot offset.

At 11:40 a.m., CRA completed the last soil boring for the site. CRA was to package samples, decontaminate the Geoprobe, prepare it for transportation, and leave the site for the week. SulTRAC left the site at 12:00 p.m. to prepare samples for delivery. At 1:25 p.m., SulTRAC returned to the site. The only CRA staff remaining was the drill crew, preparing to load up the Geoprobe for transportation. After checking on the site, SulTRAC departed the site to deliver samples to TriMatrix in Grand Rapids and also to ship CLP samples by FedEx.

#### **ISSUES AND DEVELOPMENTS**

CRA offset some soil borings due to the presence of underground utilities. The soil borings were offset no more than 5 feet in the direction deemed least hazardous away from the utilities. This minor change in some sample boring locations should have no effect on the sample quality.

CRA was able to collect only a surface sample at SB-312. A 3-foot offset was cleared by the utilities, and CRA's drilling crew advanced five attempts within this 3-foot offset; the crew encountered refusal during all five attempts at depths ranging between 3.5 to 4.5 feet bgs. CRA did not want to move into an offset area that had not been cleared by utilities, and thus collected only a surface sample.

During Week 3, CRA continued to collect fewer samples than originally anticipated due to encounters with a higher than expected water table during drilling and sampling activities. Also, a change in soil boring sampling procedures (to achieve a more efficient process for collecting samples for VOC analysis)—noted in this section of the Week 1 and Week 2 oversight reports—carried over to Week 3 sampling as well.

#### **FUTURE ACTIVITIES**

As requested by EPA, SulTRAC will continue performing oversight and split sampling activities until the Phase II RI is complete. SulTRAC will submit weekly summary reports to EPA for the duration of the Phase II RI field activities.

**APPENDIX A**  
**SULTRAC PHOTOGRAPHIC LOG**  
**(Four Pages)**



Photograph No. 1

Orientation: Overview

Description: Conestoga-Rovers & Associates, Inc. (CRA) splitting soil sample among all sample jars at SB-121.

Location: Plainwell Mill Site

Date: January 25, 2010



Photograph No. 2

Orientation: Southeast

Description: Beginning excavation of Test Pit 308.

Location: Plainwell Mill Site

Date: January 25, 2010



Photograph No. 3

Orientation: Overview

Description: Collecting a sample for volatile organic compounds (VOC) analysis from the excavator bucket at the Test Pit 308.

Location: Plainwell Mill Site

Date: January 26, 2010



Photograph No. 4

Orientation: North

Description: CRA and SulTRAC splitting VOC samples at SB-139.

Location: Plainwell Mill Site

Date: January 27, 2010



Photograph No. 5

Orientation: East

Description: Offset of SB-301 due to utilities.

Location: Plainwell Mill Site

Date: January 27, 2010



Photograph No. 6

Orientation: Overview

Description: White, silty to clay material found in the 5- to 6-foot below ground surface (bgs) interval of SB-203.

Location: Plainwell Mill Site

Date: January 27, 2010



2010/01/28

Photograph No. 7  
Orientation: Northeast  
Description: CRA advancing SB-311.

Location: Plainwell Mill Site  
Date: January 28, 2010



2010/01/28

Photograph No. 8  
Orientation: Overview  
Description: CRA advancing one of five attempts for SB-312, encountering refusal within 5 feet bgs here and at the other four positions.

Location: Plainwell Mill Site  
Date: January 28, 2010

**APPENDIX B**  
**SULTRAC OVERSIGHT FIELD NOTES**  
**(19 Sheets)**



"*Rite in the Rain*"®  
ALL-WEATHER  
**FIELD**  
No. 351

Plainwell Mill  
RI Oversight

1-11-2010 →

Book 1

Plainwell Well (week 3) 1/25/10

0800 SUITRAC onsite, CRA already present  
weather 32°F, 10-15 mph winds

0830 Prein & Newell - survey crew

hired by CRA onsite to survey  
soil boring and monitoring wells

0845 - CRA finished setting up for day  
- one crew started on test pits

- second crew started soil boring

0855 - CRA staff w/soil boring

Corrie Bondy, Evan Barnes,  
Tony Getty, Jason Hushman

Started SB-130 —

01' topsoil

1'-5' - clay with sand fill

5'-15' - sandy fill - water table @ 14'

0-1'

12.5'-14.5' } sample interval

0915 - Photo Log 0915 - SB 130

(SO-SW 394-CB-012510-126) 0-1'

15-20' - native - gravel/sand

highest PTD - 12-14' 1.6

925 SO-SW 394-CB 012510-127) 12.5'-14.5'

930 SO-SW 394-CB-012510-128) Dup 12.5'-14.5'

- Kev Rose 1-25-10

## Plainwell Mill

01/25/10

CRA resample SB-126 because  
sample broken in shipment → 7.5'-9.5'

955 - SO-S6394-CB-012S10-129 7.5'-9.5'  
955 S-SO-S6394-CB-012S10-129 7.5'-9.5'

1020 - Started on SB-131 —  
0-0.5' - topsoil - debris  
0.5-8.5' - clay/sandy fill  
loose brown muck  
8.5-9.5' - sandfill  
9.5-10.5' sand (natural /)  
10.5-15' - gravel/sand  
15-20' - gravel/sand  
8' water table PTD higher 0-1' 1.5'

1040 SO-S6394-CB-012S10-130 0-1'

1045 SO-S6394-CB-012S10-131 moist 6-8'

1050 - Started SB-129 —

1111 - Photo log - SB129

1120 SO-S6394-CB-012S10-132 0-1'  
1125 " " - 13.3 6-8'  
1130 " " - 13.4 8-10'  
1125.5 SO-S6394-CB-012S-133 6-8' - split

0-0.5' topsoil  
0.5-7' - clay fill w/ paper residue - moist  
7.5' paper residue  
7.5-9.5' sandfill

Kruska 1/25/10

## Plainwell mi 11

1/28/10

1120- SB 129 - continued -

9.5-9.7 concrete debris

9.7-10 sand fill fine to coarse  
10-15 - sand (natural)

1130 - SUITRAC offsite - lunch + CRA

1200 - SUITRAC cra CB11 - onsite

12:10 - Started SB-127 —

0-0.75' topsoil

1-1.25' - gravel (fill) - fine grained

1.25-4.7' - sand (fill) f to c grained

4.7-5' loose to compact "

5-8' w/ cobble fragm "

8-8.25' inc. in paper residue "

9.0-9.5' f to c grained / w fine gravel

10' true paper

12.5' wet High PTD → 1.0

13.5-20' sand & gravel (natural) fine  
sand/gravel

1245 - SD-S6394-CB-012S10-135 0-1'

1250 " " - 13.6 6.5'-8.5'

1255 " " - 13.7 10.5'-12.5'

1255.5 SO-S6394-CB-012S10-137 10.5'-12.5' split

1310 - Weather - snow flurries & overcast

Kruska 1-25-10

## Plainwell Mill site

1-25-10

13/0 - Started SB-125

0 TOPSOIL

0.5-2.5 - SAND(FILL) f m grained

2.5 - concrete debris

3.0-7 - Sand (F11) w/paper debirs  
coal/glass TR. f - gravel

7-9.25 cobble fragments

9.25-15.5 SAND(F11)

15.5-20 - SAND &amp; GRAVEL (NAT)

1335 SO-S6394-CB-012510-138 0-1'

1340 SO-S6394-CB-012510-139 3-5'

1345 SO-S6394-CB-012510-140 (CUP) 3-5'

1350 SO-S6394-CB-012510-141 9.5-10'

14.45<sup>ee</sup> water table @ 10'

15.66 - Started SB-123

15.00 SO-S6394-CB-012510-142 0-1'

15.05 SO-S6394-CB-012510-143 7.9'

15.05 S-SO-S6394-CB-012510-143 7.9' split

0-11 SAND(Fill) frc gravel<sup>ee</sup> grained  
tr f gravel

7.0 - trace cobble fragments

8.5 - trace clay

8.9.0 - wet

11-15 Gravelly sand (NAT)

15-20 Gravel (NAT)

RwRw 1/25/10

## Plainwell Mill site

1/25/10

1530 - Started SB-121

1550 SO-S6394-CB-012510-144 0-1'

1555 &lt;0 - " 1-3'

1600 " 11-13'

1550 S-SO-S6394-CB-012510-144 0-1' split

0-2.5 TOPSOIL

0.25-9.5 - SAND(FILL) f grained, frc gravel  
w/ paper residuals

4.5-5 - gravel / coal "

9.5-9.7 - concrete debris

9.7-13 - SAND(FILL) compact brown moist

13-20 - SAND(NAT) water @ 13'

15.32 1558 - Photo log - CRA dividing samples

PID highest 1.4 - 10-12'

16.10 - Started SB-132

16.35 SO-S6394-CB-012510-147 0-1'

16.40 SO-S6394-CB-012510-148 8-10'

0-25 - 9.0 - sand(Fill) fgrained, tr frc

gravel loose brown moist

1-2.5 - orange brick debris

1.4 - no orange brick

9-9.15 - paper residuals

9.15-10 - sand(Fill) frc grained, at frc grained

10-20 - sand + gravel (NAT) c. sand

9.9 - water table - PID 1.2 - 10-12'

KwRw 1-25-10

Plainwell Mill Site 1/25/10  
1700 - SUITRAC & CRA leaving site

Week 3 - day 1 summary:

Soil boring:

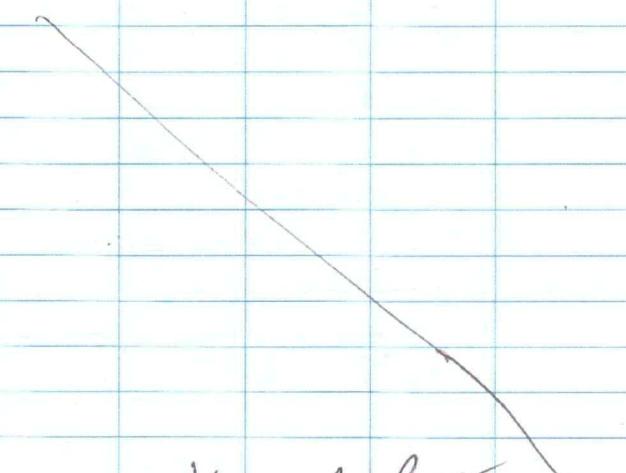
CRA = 21

SUITRAC = 5

Test PH

CRA = 12

SUITRAC = 3



Krust Rcv  
1-25-10

Plainwell Mill Site 1-26-10

0800 SUITRAC onsite CRA already onsite

0830 Start SB-133

0830 backbone Plainwell Newhof

onsite to survey well + borings

0830 Staff CRA doing soil borings

C. Bondy, Evan Barnes, Tony Gettys,  
Jason Hulshman

- Weather - ZSF showing 10-15 mph  
winds, overcast

0850 - SB-133 soil log

0900 SO-S6394-CB-012610-150 M/S/MSA 0-11'

0905 SO-S6394-CB-012610-149 7-9'

0910 SO-S6394-CB-012610-151 DWP 7.9'

Poor recovery from SB-133

0.25-4' sand (F11) f to c grained

4.3-9' sand w/clay

9.0' clay (F11)

9.0' NAT(sand) w/gravel

Very Poor recovery - some kind of void

0935 Started SB-137

1015 SO-S6394-CB-012610-152 0-11'

1020 SO-S6394-CB-012610-153 8-10'

~20 S-SO-S6394-CB-012610-153 8-10' split

Krust Rcv 1-26-10

## Plainwell Mill

SB-137 Soil Log

0.25-10 sand (fill) f grained,  
fr fro C gravel/coal

loose to compact, brown moist

4.5 orange brick debris

15-20 sand (Nat) c gravel

10-wet

Highest PCD 12

103> Started SB-135

0.5- sand (fill) f grained

fro c gravel, tr cobble, brown, moist

5-10 sand (Fill) f grained, fro gravel

clay compact, brown moist

10-(Nat) sand m fro w/f gravel

1.5 - Orange brick

10-wet

1105 SO-S6394-CB-012610-154 6-11

1110 " " 155 8-10'

1215 started SB-134

0-9.85- sand (Fill) f grained w/fro c

gravel loose brown moist

3 layers to compact TR clay

9.9- TR cobby

8-10 TR paper residual

Kirk 1-26-W

## Plainwell Mill

1-26-11

1230 SB-136 Soil Log continued-

9.0- glass debris

9.95-10.5- cobble fragments

10.5-20- sand (Nat) w/gravel

fro c sand fro c gravel

10.5-wet

1240 SO-S6394-CB-012610-156 0-1'

1245 " " 157 0-1' dry

1250 SO- " 158 8-10'

1260 S-SO-S6394-CB-012610-158 8-10' split

1315- started - SB-134

wet @ 3.5'

1340 SO-S6394-CB-012610-159 0-1'

1345 SO-S6394-CB-012610-160 1.5-3.5'

1345 S-SO-S6394-CB-012610-160 1.5-3.5' split

(1) 3.5 sand (Fill) F grained

w/fro c gravel, tr. clay

loose brown moist

3.5 wet - fro c grained

5-5.5 cobble fragments

5.5 15 - sand (Nat) m fro c Grained

fro c gravel

15-16 gravel (Nat) 16-20 same as 5.5

Jane 1-26-V

## Plainwell Mill

1-26-10

141S Started SB-140

1430 So-S6394-CB-012610-161 0-1'

1435 So-S6394-CB-012610-162 8-10'

1440 So-S6394-CB-012610-163 8-10' dry

0-7.5' 10'-Sand(Fill) f-grained

w/Floc gravel loose compact  
brown moist

3.0 trace m to c gravel

9.0-1' m grained &amp; c grained gravel

9.5 TR. cobble

10-11S - gravel(NAT) f to c gravel  
tree soil

15-20 SAND(NAT) m to c grained

w floc gravel loose brown wet

10' wet 2.0 height RJD 1/6-18

1445 Start SB-138

1515 So-S6394-CB-012610-164 ms/mso 0-1'

1520 So-S6394-CB-012610-165 8-10' 0+ "

1520 S-S6394-CB-012610-165 8-10' split

0-7.5' Sand(Fill) fine sand-brown compact

1.5 cements

7.5-10 fine to coarse sand

10-wet 10-18-coarse sand w/fine to coarse  
gravel 18-20-f to c. sand

Kurt Klotz 1-26-10

## Plainwell mill (week 3) 1-26-10

1517- Photo log (Nom) - removing  
liner for D-S' @ SB-1381525 Photo log (SE) CRA dividing  
up sample between CRA/SWTRAC

SB-138 So-S6394-CB-012610-165 8-10'

1528 3-Photo's removing  
0-1' from liner & adding to  
mixing bowl

1535 Soil boring - SB-141

0-7.5' Sand(Fill) f-grained  
trace cobble

7.5-8' rock

8-10' Sand(Fill) fine to coarse

11-wet

11-20' gravelly sand (NAT)  
m to c grained

160 So-S6394-CB-012610-166 0-1'

1615 So-S6394-CB-012610-167 9-11'

1610 S-S6394-CB-012610-166 0-1' split

1-26-10 Summary

Soil borings

test pits

CRA=16

CRA=7

SWTRAC=5

SWTRAC=2

1700 SWTRAC + CRA left site

Kurt Klotz 1-26-10



## Plainwell Mill

1-27-10

1040 SB-301 Soil log

0-4.5' sand (fill) trace F to c gravel  
+ coal loose brown moist

2.5 1" coal seam

4.5 S.O concrete debris

5.7.5 - Sand (fill) w/clay & grn. TR paper  
residuals - wood/brick/debris7.5-8.15 Clay, sand (NAT) F grained  
compact - grey wet8.15' 9 Clay (NAT) F med plow s.f. firm  
grey wet9-13 silty sand (NAT) F grained mac  
gravel

13-15 gravelly sand

15-20 - sand + cobble fragm.

1050 SO-S6394-CB-012710-173 0-1

1055 SO-S6394-CB-012710-174 S.S 7.5'

1100 SO-S6394-CB-012710-175 S.S 7.5' dup

1042 Photo log - SB 301 0-15'  
left → right

bottom ↑ top

1115 Started SB-302

Kurt Rott

1-27-10

## Plainwell Mill

1-27-10

1125 SB-302 soil log

0.5-2.25 coal

2.75-2.5' sand (fill) tr coal

2.5-3 concrete debris

3-5 sand (fill) w/gravel frc. grnd  
frc. gravel loose brown moist

4.5 orange brick debris

3-8.75 sand (fill) w/gravel frc. grnd

4.5 orange brick debris

7.0 concrete debris

8.0 trace paper residuals

1120 SO-S6394-CB-012710-176 0-1'

1135 - 177 6.75-8.75'

1135 S-SO-S6394-CB-012710-177 6.75-8.75

1141 SO-S6394-CB-012710-178 8.75-9.75

8.75-9.75 - silty clay (NAT) tr sand  
low plast., grey moist

9.75-13 - sand (NAT) f to c grained

10 compact

13-20 gravel (NAT) sand, frc.  
gravel frc. loose brown  
wet

1215 - SLITRAC offsite for lunch

1230 - SLITRAC onsite

Kurt Rott 1-27-10

Plainwell Mill 1-27-10  
 12:00 started SB-202  
 0.5 - 1.25 - coal ash blk  
 1.25 - 4.5 - sand (fill) w/ + Frc grain  
 blk

3.5 cobble fragments  
 4m wet

4.5 - 5.25 - orange brick  
 5.25 - 7.5 clay (fill) - wood debris, soft, light gray  
 7.5 - 8.5 sand (NAT) w/clay tr. silt  
 f grained loose to compact blk wet

1345 SO-S6394-CB-012710-179 0-1' MS/MSD  
 1350 SO-S6394-CB-012710-180 2-4'

1350 S-SO-S6394-CB-012710-180 2-4' split

1410 Started SB-201

0.5 sand (fill) w/gravel, f sand & gravel  
 tr coal - loose brown mire

4.0 - clay - wet

4.8 - silt tr clay

7.2 5 sand (NAT) w/silt tr clay  
 f to c grained to gray, wet

9.5 cobble fragments

1341 - Photo log SB-202 top to bottom  
 to

Kirkland 1-27-10

Plainwell Mill 1-27-10

1445 SO-S6394-CB-012710-181 0-1'  
 1450 SO-S6394-CB-012710-182 2-4'  
 1450 S-SO-S6394-CB-012710-182 2-4' split

1500 - Started SB-204

SULTRAC doing MS/MSD sample

- so - surface soil removed

- silver spoon used to fill aluminum  
 foil lined bowl to obtain volume  
 for MS/MSD @ 0-1' VOC's

taken from liner when opened

1520 SO-S6394-CB-012710-183 0-1'

1540 SO-S6394-CB-012710-184 2-4'

1520 S-SO-S6394-CB-012710-183 0-1' split  
 MS/MSD

0-5 sand (fill) gravel & sand f to c  
 gravel, compact, brown, moist

4.5 brick debris - wet

5 (nature) f grained w/silt tr clay

s.s black w/wood debris

10.0 f grained tr mto gravel / loose  
 brown w/silt

11.5 - 13.5 - Gravel (NAT) f to c gravel  
 w/mto c sand

13.5-20 sand (NAT) coarse w/grain blk

Kirkland 1-27-10

Plainwell Mill

1-27-10

1550 Started SB-203

0.2-5 sand (F&I) w/gravel/  
f sand + floc ground  
loose brown moist

4.3 ft coal

4.5 no coal

5-6 white material, soft  
silty to clay size, no plast.  
Wet

6-8 sand

7 - orange brick debris

7.5 no brick

8- 8.1/2 wood debris

8.15-20 sand (WAT) f. grained  
w/ mto c garners

15-20 - gravelly / sand

1610 - Photo log SB203C white material - 2 photos

1550 SO-56394-CB-012710-185 0-1

1555 SO-56394-CB-012710-186 2.5-4.5'

1600 SO-56394-CB-012710-187 2.5-4.5' dry

Summary soil borings

CRA 17

SUITEAC .5

1500 - Windy - heavy snow flurries - backnote

1645 - SUITEAC leaves site

John P. R.

Plainwell Mill

1-28-10

0800- SUITEAC onsite CRA already  
onsite. CRA STAFF:C Bondy, D. Rivers, J Hushman,  
T. Gettys

- weather - 3-4" of snow from  
last night. - 20-25 mph gusty  
winds, overcast, 14°F  
(weather update on radio)

0830 - started on SB-311

0.15 - 3.5 sand(F&I) f grained  
floc gravel + coal loose to  
compacted, brown moist

3.5-3.75 - gravel(F&I) f to c grained  
w/ floc sand

3.75 - 12.5' sand (F&I) compact light  
brown 1" coal scars - 8.75

12.28 - 2" coal scars

12.5-20 sand (F&I) f to c grained  
loose brown wet, mto c grain  
sand

15' wet

- soil frozen - freezes as pull linear  
out if wet soil

Tucker 1-28/10

Plainwell Mill

1-28-10

0910 SO-S6394-CB-012810-188 J=11  
 0915 S-SO-S6394-CB-012810-189 13-15'  
0915 SD-SO-S6394-CB-012810-189 13-15' dup

D920 - components on geoprobe freezing,  
 keeping propane torch lit to  
 defrost frozen parts

0925 SB-311 completed

0950 - Started SB-309

1005 SO-S6394-CB-012810-190 0-1'

1010 SO-S6394-CB-012810-191 0-1' dup

1000 SO-S6394-CB-012810-192 12.5-14.5'

1005 S-SO-S6394-CB-012810-190 0-1' split

SB-309 - Soil log

0-17 sand (F11) w/gravel, f sand  
 f to c gravel tr. concrete  
 debris + coal loose, brown, moist

4.5 1" seam of wood debris

5.0 f to m w c gravel loose

13 sand (NAT) w/gravel, f to c ground

14.5-wet

14.5-20 sand + gravel (NAT) m to c  
 sand f to c gravel

Ken Roe 1-28-10

Plainwell Mill

1-28-10

1025 - started SB-310

0.25-1.25 - Coal

1.25-2.5 - sand (fill) f to c gravel

tr. f gravel + coal loose brown, moist

2.5-3.0 - gravel (f11) f to c loose gravel/mix

3-7.5 - sand - same as 1.25 no coal

7.5-8.75 coal

8.75-12.0 - Sand as 3.0'

12.0-18 Sand (NAT) w/gravel f to c sand  
 f to c gravel loose

14.0 - wet / Higher PWD 0-6

15-20 - sand/gravel

1030 SO-S6394-CB-012810-193 0-1'

1045 SO-S6394-CB-012810-194 0-12-14'

M3/M150

SB-312 11:15 - started SB-312

1135 SO-S6394-CB-012810-195 0-1'

3.15-2.5 - sand (F11) w/gravel  
 fine sand, f to c gravel loose to  
 compact brown moist

2.5-tr coal

1125 - drilled holes @ SB-312 after  
 5' in each hole, hit rejection -  
 unable to get any deeper

Ken Roe 1-28-10

Plaintwell Mill

1-28-70

0850 - Photo log (N) SB-311

1119 - Photo log (E) re (W) SB-312

1131 - Photo log SB-312 (SW) (2 photos)

5 boring holes offset  
within 3 feet

1140 - Had refusal from 3.5' - 4.5'

in the 5 attempts. Utilities  
only cleared a 5' x 3' area so  
only surface sample was taken.

1200 SUITRAC leave site CRA

Finish picking supplies

1325 CRA staff remaining J. Hushman  
+ T Guttus - deconing equipment  
before they leave

SUITRAC offsite for the week

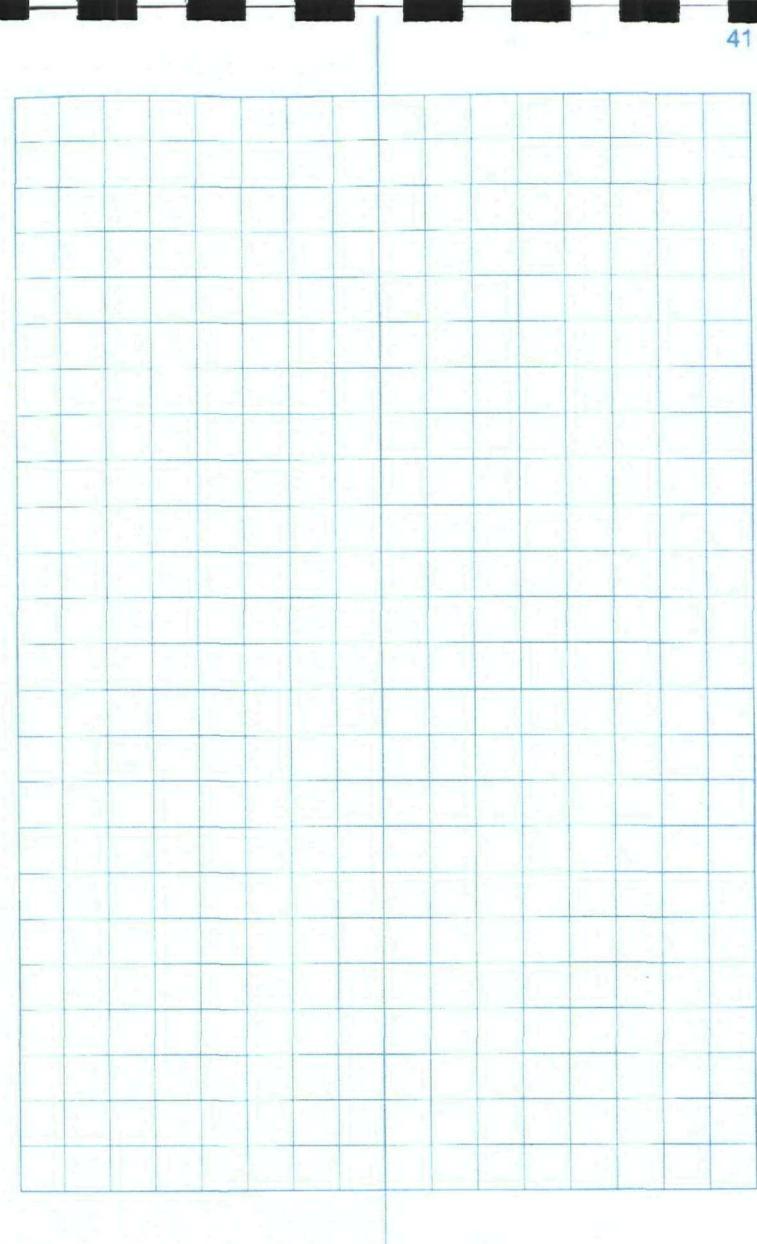
Summary

Soil Boring

CRA 7

SUITRAC 2

Kirke 1-28-70





"*Rite in the Rain*"  
ALL-WEATHER  
**FIELD**  
No. 351

PLAINWELL MILL  
RI OVERSIGHT

1-11-2010 →

Book 2

1025 SO-56394-DR-012510-1058  
 1026 Allard - 3L unmarked 01-26-10  
 1027 10x11, 6x12, 8x12, 6x8s  
 1028 10x12, 8x12, 6x8s  
 1029 10x12, 8x12, 6x8s  
 1030 10x12, 8x12, 6x8s  
 1031 10x12, 8x12, 6x8s  
 1032 10x12, 8x12, 6x8s  
 1033 10x12, 8x12, 6x8s  
 1034 10x12, 8x12, 6x8s  
 1035 10x12, 8x12, 6x8s

1036 10x12, 8x12, 6x8s  
 1037 10x12, 8x12, 6x8s  
 1038 10x12, 8x12, 6x8s  
 1039 10x12, 8x12, 6x8s  
 1040 10x12, 8x12, 6x8s  
 1041 10x12, 8x12, 6x8s  
 1042 10x12, 8x12, 6x8s  
 1043 10x12, 8x12, 6x8s  
 1044 10x12, 8x12, 6x8s  
 1045 10x12, 8x12, 6x8s  
 1046 10x12, 8x12, 6x8s  
 1047 10x12, 8x12, 6x8s  
 1048 10x12, 8x12, 6x8s  
 1049 10x12, 8x12, 6x8s  
 1050 10x12, 8x12, 6x8s  
 1051 10x12, 8x12, 6x8s  
 1052 10x12, 8x12, 6x8s  
 1053 10x12, 8x12, 6x8s  
 1054 10x12, 8x12, 6x8s  
 1055 10x12, 8x12, 6x8s  
 1056 10x12, 8x12, 6x8s  
 1057 10x12, 8x12, 6x8s  
 1058 10x12, 8x12, 6x8s  
 1059 10x12, 8x12, 6x8s  
 1060 10x12, 8x12, 6x8s

24

## Allied - Plainwell

1040

Fill in excavation TP315. — ftk  
 Samples collected at TP308 &  
 TP315 will be analyzed for  
 cyanide by CRA's lab. — ftk

01-25-10

1112

Begin excavation of TP309.  
 No cyanide analysis by CRA  
 at this location — ftk

1115

SO-56394-DR-012510-1062  
 collected from 0-12" bgs

0-2"- black coal; 2-5" reddish  
 brown fine sand; 2"- 2 ft brown fill

SO-56394-DR-012510-1063

collected from 3-4' bgs

Sut TAC splits sample — ftk

1140

The brown fill material between  
 coal layer and 2 feet is  
 brown to dark brown, silty

coarse sand and gravel with  
 some cobbles and concrete pieces

2-5"- reddish brown, fine sand

5-8"- brown coarse sand &  
 gravel with cobbles  
 & boulders (native)

1158

Excavation depth is 8 ft bgs

ftk 1-25-10

25

## Allied - Plainwell

1200

Excavation is 8'W X 12'L.  
 Begin filling in TP309

1215

CRA creates for lunch. — ftk

1245

Prep sample containers for  
 afternoon sampling. — ftk

1305

Begin excavating TP314 — ftk

—

Back note: at 1145  
 CRA collected sample at TP309  
 SO-56394-DR-012510-1064 from  
 a depth 6-8'. It was a  
 MS/MSD — ftk

Photo take of TP314 location

Collect soil sample SO-56394-DR-  
 012510-1065 from 0-2' (coal).

Collect soil sample SO-56394-DR-  
 012510-1066 from 6-8'

Collect soil sample SO-56394-DR-  
 012510-1067 from 10-11'

TP314 is 4 W X 12 L X 1' D  
 0-18"- coal, 18"- 10 ft fill  
 material comprised of brown  
 coarse silty sand with glass,  
 metal, wood, clay, household  
 items, bricks, concrete blocks

ftk 1-25-10

<sup>26</sup>  
Allied-Plainwell

1358

Excavation TP 314 photos  
taken

01-25-10

1357

Begin filling TP 314 excavation,

1430

Set up at TP 312

1440

Collect soil sample

SO-56394-DR-012510-1069

(0-2') SWTRAT split sample

-1068 was used for a  
trip blank.

1500

Encountered clay 6" diameter pipe

Photo taken

1500

Collect soil sample SO-56394-

DR-012510-1070 from 5-7' bgs

A duplicate sample was  
collected by CRA at this  
location (-1071).

1510

Excavation is 4' W x 12.5' L x  
7' D. 0-12" coal; 1-5'  
redish brown fine to medium  
grain sand; 5-7' brown  
coarse sand & gravel

1515

Surveyors on site to locate  
monitoring wells, test pits,  
and soil borings also

JK  
1-25-10

<sup>27</sup>  
Allied-Plainwell.

01-25-10

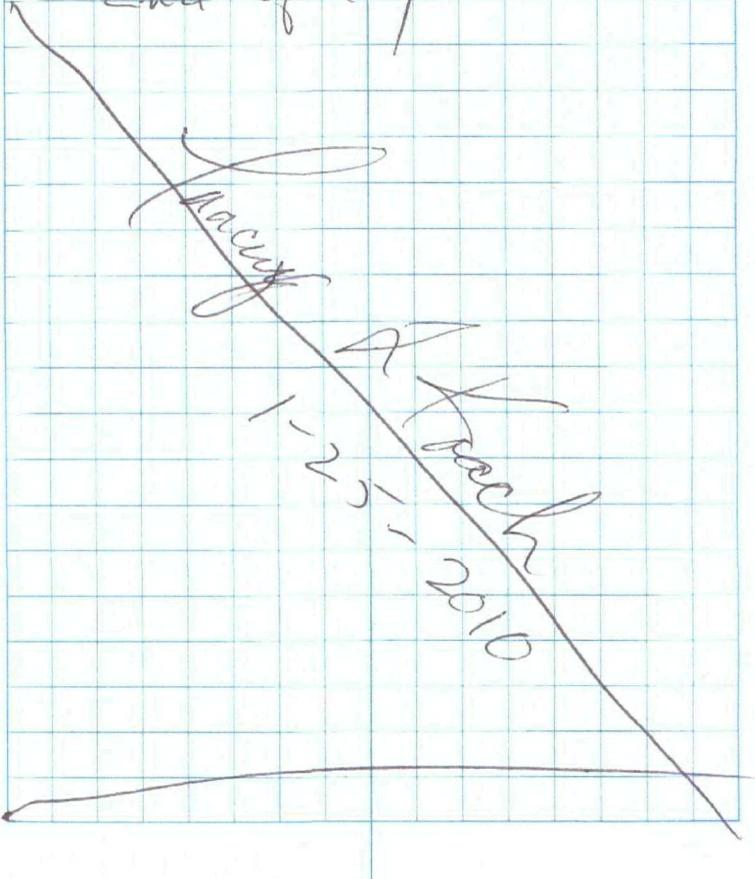
survey 6" pipe in TP 312.

1520 Fill in excavation TP 312.

1600 leave site to pack samples.

CRA crew (Dave Rivers) packed  
samples on site.

End of Day



Allied-Plainwell

0800

SuTRAC (Kristi Root, Tracey Koach) arrive on site. Prepare bottles for sampling. — *TK*

01-26-10

0830

Weather: Overcast, snowing, cold ( $25^{\circ}\text{F}$ ) — *TK*

0840

Set up at TP313; photo taken — *TK*

0900

Collect soil sample SO-56394-DR-012610-1072 (2-4') — *TK*

0910

Collect soil sample SO-56394-DR-012610-1073 (4-6') and duplicate (-1074) from grey layer. Photo taken — *TK*

0925

Collect soil sample SO-56394-DR-012610-1075 (8-9'). SuTRAC splits sample. Photo taken

0940

Excavation is 4'W x 11'L x 9'D.

0950

Begin filling in TP313 — *TK*

1025

Set up at TP311. Photo taken, — *TK*

1030

Collect soil sample SO-56394-

1045

DR-012610-1076 (0-2') — *TK*

1050

Collect soil sample SO-56394-DR-012610-1077 (4-6') — *TK*

1050

Excavation is 4'W x 9'L x 6'D. — *TK*

*TK (2)* -10

Allied-Plainwell

01-26-10

0-4" Coal; 4"-2' Dark brown silty sand with some debris, gravel; 2'-4' reddish brown fine to medium grain sand with few gravel & cobbles; 4'-6' Coarse gravel with cobbles & boulders. — *TK*

1100

Begin filling in TP311. — *TK*

1125

Begin excavating TP310. Photo taken — *TK*

1135

Collect soil sample SO-56394-DR-012610-1078 (1-2'). SuTRAC splits and takes duplicate.

1145

Encounter layer of boulders. Photo taken. — *TK*

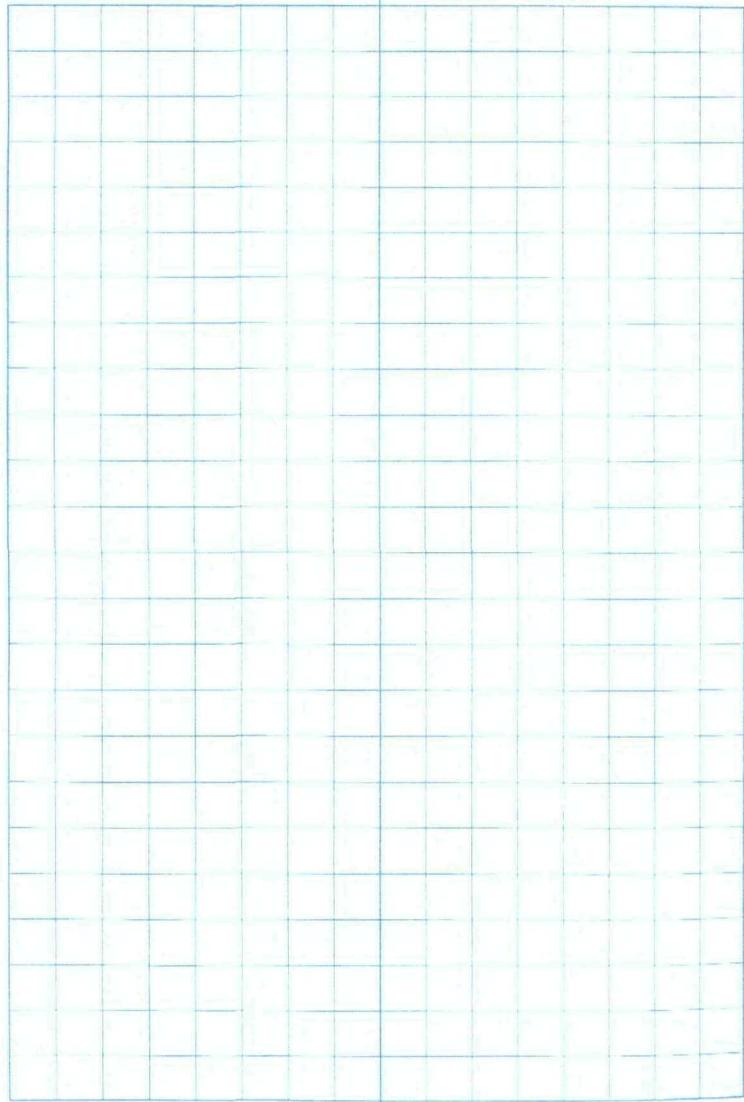
1155

Collect sample SO-56394-DR-012610-1079 (8-10') — *TK*

1205

Excavation is 4'W x L x 10'D. 0-1' coal; 1-2' crushed slag & gravel; 2-4.5' reddish brown fine to medium grain sand; 4.5-8' sand and fill comprised of boulders, asphalt, brick, metal

*1-26-10*  
*TK*



Aliud - ~~Aliud~~ - ~~Aliud~~

8-18 Brown eaves gull

1230 heart attack after CPR collapse

falling in TPI, last time

falling of bed of day

falling of bed of day

10-26-14

10-26-14

30

**APPENDIX C**  
**FIELD SAMPLE LOG**  
(10 Pages)

SUBSURFACE SOIL SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
FIELD BLANK	CRA	SO-56394-CB-011110-005	1/11/2010			FB				
MW-14	CRA	SO-56394-CB-011210-006	1/12/2010	0-2	1010	MS/MSD	1			
MW-14	CRA	SO-56394-CB-011210-008	1/12/2010	8-10	1030		1			
MW-14	CRA	SO-56394-CB-011210-009	1/12/2010	8-10	1035	DUPLICATE				
MW-15	CRA	SO-56394-CB-011110-003	1/11/2010	0-2	1535		1			
MW-15	CRA	SO-56394-CB-011110-004	1/11/2010	4-6	1550		1			
MW-15	SuITRAC	S-SO-56394-CB-011110-003	1/11/2010	0-2	1535		1			
MW-16	CRA	SO-56394-CB-011210-015	1/12/2010	8-10	1600		1			
MW-16	CRA	SO-56394-CB-011210-016	1/12/2010	3-5	1550		1			
MW-16	CRA	SO-56394-CB-011210-017	1/12/2010	0-2	1540		1			
MW-16	SuITRAC	S-SO-56394-CB-011210-015	1/12/2010	8-10	1600		1			
MW-17	CRA	SO-56394-CB-011310-018	1/13/2010	0-2	1100		1			
MW-17	CRA	SO-56394-CB-011210-019	1/12/2010	8-10	1700		1			
MW-17	CRA	SO-56394-CB-011310-020	1/13/2010	0-2	1110	DUPLICATE				
MW-18	CRA	SO-56394-CB-011310-025	1/13/2010	0-2	1510		1			
MW-18	CRA	SO-56394-CB-011310-026	1/13/2010	8-10	1520		1			
MW-18	CRA	SO-56394-CB-011310-027	1/13/2010	10-12	1530		1			
MW-18	SuITRAC	S-SO-56394-CB-011310-026	1/13/2010	8-10	1520		1			
MW-19	CRA	SO-56394-CB-011310-028	1/13/2010	0-2	1630		1			
MW-19	CRA	SO-56394-CB-011310-029	1/13/2010	8-10	1640		1			
MW-19	SuITRAC	S-SO-56394-CB-011310-028	1/13/2010	0-2	1630		1			
SB-109	CRA	SO-56394-CB-011110-001	1/11/2010	0-2	1415		1			
SB-109	CRA	SO-56394-CB-011110-002	1/11/2010	8-10	1425		1			
SB-303	CRA	SO-56395-CB-011410-032	1/14/2010	0-2	900	MS/MSD	1			
SB-303	CRA	SO-56395-CB-011410-033	1/14/2010	3.5-5.5	905		1			
SB-303	SuITRAC	S-SO-56395-CB-011410-033	1/14/2010	3.5-5.5	905		1			
SB-303	SuITRAC	SD-SO-56395-CB-011410-033	1/14/2010	3.5-5.5	907	DUPLICATE	1			
SB-303	CRA	SO-56395-CB-011410-034	1/14/2010	5.5-7.5	910		1			
SB-303	CRA	SO-56395-CB-011410-035	1/14/2010	8-10	915		1			
SB-303	CRA	SO-56395-CB-011410-036	1/14/2010	8-10	920	DUPLICATE				
SB-304	CRA	SO-56395-CB-011410-037	1/14/2010	0-2	1010		1			
SB-304	CRA	SO-56395-CB-011410-038	1/14/2010	4-6	1015		1			
SB-304	CRA	SO-56395-CB-011410-039	1/14/2010	6-8	1020		1			
SB-304	CRA	SO-56395-CB-011410-040	1/14/2010	8-10	1025		1			
SB-304	SuITRAC	S-SO-56395-CB-011410-040	1/14/2010	8-10	1025		1			
SB-305	CRA	SO-56395-CB-011410-041	1/14/2010	0-2	1120		1			
SB-305	SuITRAC	S-SO-56395-CB-011410-041	1/14/2010	0-2	1120	MS/MSD	1			1
SB-305	CRA	SO-56395-CB-011410-042	1/14/2010	8-10	1130		1			

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
SB-306	CRA	SO-56395-CB-011410-043	1/14/2010	0-1	1210		1			
SB-306	CRA	SO-56395-CB-011410-044	1/14/2010	7.5-9.5	1215		1			
SB-306	CRA	SO-56395-CB-011410-045	1/14/2010	7.5-9.5	1220	DUPLICATE				
SB-306	CRA	SO-56395-CB-011410-046	1/14/2010	9.5-11	1225		1			
SB-306	SuITRAC	S-SO-56395-CB-011410-046	1/14/2010	9.5-11	1225			1		
SB-307	CRA	SO-56395-CB-011410-047	1/14/2010	0-1	1400		1			
SB-307	CRA	SO-56395-CB-011410-048	1/14/2010	6-8	1405		1			
SB-307	CRA	SO-56395-CB-011410-049	1/14/2010	6-8	1410	DUPLICATE				
SB-307	CRA	SO-56395-CB-011410-050	1/14/2010	8-10	1415		1			
VA-1	CRA	SO-56394-CB-011310-1010	1/13/2010	0-2	1315		1			
VA-1	CRA	SO-56394-CB-011310-1011	1/13/2010	8-10	1325		1			
VA-1	SuITRAC	S-SO-56394-CB-011310-1011	1/13/2010	8-10	1325			1		
SB-110	CRA	SO-56394-CB-011810-053	1/18/2010	0-1	1000		1			
SB-110	CRA	SO-56394-CB-011810-054	1/18/2010	8-10	1005		1			
SB-110	CRA	SO-56394-CB-011810-055	1/18/2010	8-10	1010	Duplicate				
SB-108	CRA	SO-56394-CB-011810-056	1/18/2010	0-1	1115		1			
SB-108	CRA	SO-56394-CB-011810-057	1/18/2010	6.5-8.5	1120		1			
SB-108	CRA	SO-56394-CB-011810-058	1/18/2010	8.5-10.0	1125		1			
SB-108	SuITRAC	S-SO-56394-CB-011810-057	1/18/2010	6.5-8.5	1125			1		
SB-107	CRA	SO-56394-CB-011810-059	1/18/2010	0-1	1300		1			
SB-107	CRA	SO-56394-CB-011810-060	1/18/2010	6.5-8.5	1305		1			
SB-107	CRA	SO-56394-CB-011810-061	1/18/2010	8.5-10.0	1310		1			
SB-101	CRA	SO-56394-CB-011810-062	1/18/2010	0-1	1345	MS/MSD	1			
SB-101	CRA	SO-56394-CB-011810-063	1/18/2010	6.8-8.8	1350		1			
SB-101	CRA	SO-56394-CB-011810-064	1/18/2010	8.8-9.5	1355		1			
SB-101	SuITRAC	S-SO-56394-CB-011810-062	1/18/2010	0-1	1345			1		
SB-106	CRA	SO-56394-CB-011810-067	1/18/2010	0-1	1505		1			
SB-106	CRA	SO-56394-CB-011810-068	1/18/2010	3.5-5.5	1510		1			
SB-106	CRA	SO-56394-CB-011810-069	1/18/2010	8-10	1515		1			
SB-106	CRA	SO-56394-CB-011810-070	1/18/2010	8-10	1520	Duplicate				
SB-111	CRA	SO-56394-CB-011810-071	1/18/2010	0-1	1605		1			
SB-111	CRA	SO-56394-CB-011810-072	1/18/2010	7-9	1605		1			
SB-111	SuITRAC	S-SO-56394-CB-011810-071	1/18/2010	0-1	1605			1		
SB-308	CRA	SO-56394-DR-011810-1020	1/18/2010	0-2	1410		1			
SB-308	CRA	SO-56394-DR-011810-1021	1/18/2010	3-5	1415		1			
SB-308	CRA	SO-56394-DR-011810-1022	1/18/2010	7.5-9.5	1420		1			
Test Pit 201	CRA	SO-56394-DR-011910-1023	1/19/2010	0-2	1105		1			

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
Test Pit 201	CRA	SO-56394-DR-011910-1024	1/19/2010	8-10	1130		1			
Test Pit 201	SuITRAC	S-SO-56394-DR-011910-1024	1/19/2010	8-10	1130			1		
Test Pit 202	CRA	SO-56394-DR-011910-1025	1/19/2010	1-2	1330		1			
Test Pit 202	CRA	SO-56394-DR-011910-1026	1/19/2010	1-2	1335	Duplicate				
Test Pit 202	CRA	SO-56394-DR-011910-1027	1/19/2010	8-10	1340		1			
SB-113	CRA	SO-56394-CB-011910-073	1/19/2010	0-1	905		1			
SB-113	CRA	SO-56394-CB-011910-074	1/19/2010	8-10	910		1			
SB-112	CRA	SO-56394-CB-011910-075	1/19/2010	0-1	950		1			
SB-112	CRA	SO-56394-CB-011910-076	1/19/2010	0-1	950	Duplicate				
SB-112	CRA	SO-56394-CB-011910-077	1/19/2010	6-8	950		1			
SB-112	SuITRAC	S-SO-56394-CB-011910-077	1/19/2010	6-8	950			1		
SB-112	SuITRAC	SD-SO-56394-CB-011910-077	1/19/2010	6-8	950	Duplicate			1	
SB-114	CRA	SO-56394-CB-011910-078	1/19/2010	0-1	1110		1			
SB-114	CRA	SO-56394-CB-011910-079	1/19/2010	8-10	1115		1			
SB-116	CRA	SO-56394-CB-011910-080	1/19/2010	0-1	1250		1			
SB-116	CRA	SO-56394-CB-011910-081	1/19/2010	7-9	1255		1			
SB-116	SuITRAC	S-SO-56394-CB-011910-081	1/19/2010	7-9	1255			1		
SB-116	CRA	SO-56394-CB-011910-082	1/19/2010	9.5-10	1300		1			
SB-117	CRA	SO-56394-CB-011910-083	1/19/2010	0-1	1410	MS/MSD	1			
SB-117	CRA	SO-56394-CB-011910-084	1/19/2010	8-10	1415		1			
SB-115	CRA	SO-56394-CB-011910-085	1/19/2010	0-1	1520		1			
SB-115	CRA	SO-56394-CB-011910-086	1/19/2010	3-5	1525		1			
SB-115	SuITRAC	S-SO-56394-CB-011910-086	1/19/2010	3-5	1525			1		
SB-115	CRA	SO-56394-CB-011910-087	1/19/2010	5-7	1530		1			
SB-115	CRA	SO-56394-CB-011910-088	1/19/2010	9-10	1535		1			
SB-119	CRA	SO-56394-CB-011910-089	1/19/2010	0-1	1620		1			
SB-119	CRA	SO-56394-CB-011910-090	1/19/2010	8-10	1625		1			
SB-119	SuITRAC	S-SO-56394-CB-011910-090	1/19/2010	8-10	1625			1		
Test Pit 203	CRA	SO-56394-DR-011910-1031	1/20/2010	0.5-1.5	845		1			
Test Pit 203	SuITRAC	S-SO-56394-DR-011910-1031	1/20/2010	0.5-1.5	845			1		
Test Pit 203	CRA	SO-56394-DR-011910-1032	1/20/2010	2-4	900		1			
Test Pit 203	CRA	SO-56394-DR-011910-1033	1/20/2010	8-10	925		1			
Test Pit 301	CRA	SO-56394-DR-011910-1034	1/20/2010	0-1	1135		1			
Test Pit 301	CRA	SO-56394-DR-011910-1035	1/20/2010	6-8	1210		1			
Test Pit 301	SuITRAC	S-SO-56394-DR-011910-1035	1/20/2010	6-8	1210			1		
Test Pit 301	CRA	SO-56394-DR-011910-1036	1/20/2010	8-10	1225		1			
Test Pit 302	CRA	SO-56394-DR-011910-1037	1/20/2010	0.5-1.5	1345		1			
Test Pit 302	CRA	SO-56394-DR-011910-1038	1/20/2010	4-6	1400		1			
Test Pit 302	SuITRAC	S-SO-56394-DR-011910-1038	1/20/2010	4-6	1400			1		

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
Test Pit 302	CRA	SO-56394-DR-011910-1039	1/20/2010	10-11	1425		1			
Test Pit 306	CRA	SO-56394-DR-011910-1041	1/20/2010	0.5-1.5	1515		1			
Test Pit 306	CRA	SO-56394-DR-011910-1042	1/20/2010	6-7	1535		1			
Test Pit 306	CRA	SO-56394-DR-011910-1043	1/20/2010	6-7	1540	Duplicate				
SB-144	CRA	SO-56394-CB-012010-092	1/20/2010	0-1	1000		1			
SB-144	CRA	SO-56394-CB-012010-093	1/20/2010	7-9	1005		1			
SB-144	CRA	SO-56394-CB-012010-093	1/20/2010	7-9	1005	Duplicate				
SB-145	CRA	SO-56394-CB-012010-094	1/20/2010	0-1	1100		1			
SB-145	CRA	SO-56394-CB-012010-095	1/20/2010	7.5-9.5	1105		1			
SB-145	SuITRAC	S-SO-56394-CB-012010-094	1/20/2010	0-1	1100			1		
SB-143	CRA	SO-56394-CB-012010-096	1/20/2010	0-1	1200		1			
SB-143	CRA	SO-56394-CB-012010-097	1/20/2010	8-10	1205		1			
SB-142	CRA	SO-56394-CB-012010-098	1/20/2010	0-1	1355		1			
SB-142	CRA	SO-56394-CB-012010-099	1/20/2010	8.5-10.5	1400		1			
SB-142	SuITRAC	S-SO-56394-CB-012010-099	1/20/2010	8.5-10.5	1350			1		
SB-102	CRA	SO-56394-CB-012010-100	1/20/2010	0-1	1430		1			
SB-102	CRA	SO-56394-CB-012010-101	1/20/2010	8-10	1435		1			
SB-118	CRA	SO-56394-CB-012010-102	1/20/2010	0-1	1545		1			
SB-118	CRA	SO-56394-CB-012010-103	1/20/2010	7.5-9.5	1550		1			
SB-103	CRA	SO-56394-CB-012010-104	1/20/2010	0-1	1640		1			
SB-103	CRA	SO-56394-CB-012010-105	1/20/2010	7-9	1645		1			
SB-103	SuITRAC	S-SO-56394-CB-012010-105	1/20/2010	7-9	1645			1		
Test Pit 303	CRA	SO-56394-DR-012110-1044	1/21/2010	0-1	835		1			
Test Pit 303	CRA	SO-56394-DR-012110-1045	1/21/2010	6-8	855		1			
Test Pit 303	SuITRAC	S-SO-56394-DR-012110-1045	1/21/2010	6-8	855			1		1
Test Pit 307	CRA	SO-56394-DR-012110-1046	1/21/2010	0.5-1.5	1020		1			
Test Pit 307	CRA	SO-56394-DR-012110-1047	1/21/2010	0.5-1.5	1025	Duplicate				
Test Pit 307	CRA	SO-56394-DR-012110-1048	1/21/2010	8-10	1045		1			
Test Pit 307	CRA	SO-56394-DR-012110-1049	1/21/2010	2-3	1120		1			
Test Pit 307	SuITRAC	S-SO-56394-DR-012110-1049	1/21/2010	2-3	1120			1		
Test Pit 307	SuITRAC	SD-SO-56394-DR-012110-1049	1/21/2010	2-3	1125	Duplicate			1	
Test Pit 305	CRA	SO-56394-DR-012110-1050	1/21/2010	0.5-1.5	1340		1			
Test Pit 305	SuITRAC	S-SO-56394-DR-012110-1050	1/21/2010	0.5-1.5	1340			1		
Test Pit 305	CRA	SO-56394-DR-012110-1051	1/21/2010	2-4	1350	MS/MSD	1			
Test Pit 305	CRA	SO-56394-DR-012110-1052	1/21/2010	6-8	1405		1			
Test Pit 304	CRA	SO-56394-DR-012110-1053	1/21/2010	0.5-1.5	1455		1			
Test Pit 304	CRA	SO-56394-DR-012110-1054	1/21/2010	2-4	1505		1			
Test Pit 304	CRA	SO-56394-DR-012110-1055	1/21/2010	5-7	1515		1			
SB-120	CRA	SO-56394-CB-012110-106	1/21/2010	0-1	905		1			

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
SB-120	CRA	SO-56394-CB-012110-107	1/21/2010	7.75-9.75	910		1			
SB-120	CRA	SO-56394-CB-012010-108	1/21/2010	0-1	915	Duplicate				
SB-120	SuITRAC	S-SO-56394-CB-012110-107	1/21/2010	7.75-9.75	900			1		
SB-104	CRA	SO-56394-CB-012110-109	1/21/2010	0-1	950		1			
SB-104	CRA	SO-56394-CB-012110-110	1/21/2010	3-5	955	MS/MSD	1			
SB-104	CRA	SO-56394-CB-012110-111	1/21/2010	5-7	1000		1			
SB-104	CRA	SO-56394-CB-012110-112	1/21/2010	8-10	1005		1			
SB-104	SuITRAC	S-SO-56394-CB-012110-109	1/21/2010	0-1	1000			1		
SB-122	CRA	SO-56394-CB-012110-113	1/21/2010	0-1	1120		1			
SB-122	CRA	SO-56394-CB-012110-114	1/21/2010	8-10	1125		1			
SB-122	SuITRAC	S-SO-56394-CB-012110-114	1/21/2010	8-10	1120			1		
SB-124	CRA	SO-56394-CB-012110-115	1/21/2010	0-1	1315		1			
SB-124	CRA	SO-56394-CB-012110-116	1/21/2010	8-10	1320		1			
SB-124	SuITRAC	S-SO-56394-CB-012110-116	1/21/2010	8-10	1310			1		
SB-126	CRA	SO-56394-CB-012110-117	1/21/2010	0-1	1415		1			
SB-126	CRA	SO-56394-CB-012110-118	1/21/2010	7.5-9.5	1420		1			
SB-126	SuITRAC	S-SO-56394-CB-012110-118	1/21/2010	7.5-9.5	1410			1		
SB-105	CRA	SO-56394-CB-012110-119	1/21/2010	0-1	1520		1			
SB-105	CRA	SO-56394-CB-012110-120	1/21/2010	1-3	1525		1			
SB-105	CRA	SO-56394-CB-012110-121	1/21/2010	3-5	1530		1			
SB-105	CRA	SO-56394-CB-012110-122	1/21/2010	8-10	1535		1			
SB-128	CRA	SO-56394-CB-012110-123	1/21/2010	3-5	1540	Duplicate				
SB-128	CRA	SO-56394-CB-012110-124	1/21/2010	0-1	1615		1			
SB-128	CRA	SO-56394-CB-012110-125	1/21/2010	11.5-13.5	1620		1			
SB-130	CRA	SO-56394-CB-012510-126	1/25/2010	0-1	0915		1			
SB-130	CRA	SO-56394-CB-012510-127	1/25/2010	12.5-14.5	0925		1			
SB-130	CRA	SO-56394-CB-012510-128	1/25/2010	12.5-14.5	0930	Duplicate				
SB-126	CRA	SO-56394-CB-012510-129	1/25/2010	7.5-9.5	0955	RESAMPLE	1			
SB-126	SuITRAC	S-SO-56394-CB-012510-129	1/25/2010	7.5-9.5	0955			1		
SB-131	CRA	SO-56394-CB-012510-130	1/25/2010	0-1	1040		1			
SB-131	CRA	SO-56394-CB-012510-131	1/25/2010	6-8	1045	MS/MSD	1			
SB-129	CRA	SO-56394-CB-012510-132	1/25/2010	0-1	1120		1			
SB-129	CRA	SO-56394-CB-012510-133	1/25/2010	6-8	1125		1			
SB-129	CRA	SO-56394-CB-012510-134	1/25/2010	8-10	1130		1			
SB-129	SuITRAC	S-SO-56394-CB-012510-133	1/25/2010	6-8	1125			1		
SB-127	CRA	SO-56394-CB-012510-135	1/25/2010	0-1	1245		1			
SB-127	CRA	SO-56394-CB-012510-136	1/25/2010	6.5-8.5	1250		1			
SB-127	CRA	SO-56394-CB-012510-137	1/25/2010	10.5-12.5	1255		1			
SB-127	SuITRAC	S-SO-56394-CB-012510-137	1/25/2010	10.5-12.5	1255			1		

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
SB-125	CRA	SO-56394-CB-012510-138	1/25/2010	0-1	1335		1			
SB-125	CRA	SO-56394-CB-012510-139	1/25/2010	3-5	1340		1			
SB-125	CRA	SO-56394-CB-012510-140	1/25/2010	3-5	145	Duplicate				
SB-125	CRA	SO-56394-CB-012510-141	1/25/2010	9.5-10	1350		1			
SB-123	CRA	SO-56394-CB-012510-142	1/25/2010	0-1	1500		1			
SB-123	CRA	SO-56394-CB-012510-143	1/25/2010	7-9	1505		1			
SB-123	SuITRAC	S-SO-56394-CB-012510-143	1/25/2010	7-9	1505			1		
SB-121	CRA	SO-56394-CB-012510-144	1/25/2010	0-1	1550		1			
SB-121	CRA	SO-56394-CB-012510-145	1/25/2010	1-3	1555		1			
SB-121	CRA	SO-56394-CB-012510-146	1/25/2010	11-13	1600		1			
SB-121	SuITRAC	S-SO-56394-CB-012510-144	1/25/2010	0-1	1550			1		
SB-132	CRA	SO-56394-CB-012510-147	1/25/2010	0-1	1635		1			
SB-132	CRA	SO-56394-CB-012510-148	1/25/2010	8-10	1640		1			
TP-308	CRA	SO-56394-DR-012510-1057	1/25/2010	0-1.25	0915		1			
TP-308	CRA	SO-56394-DR-012510-1058	1/25/2010	1-2	920		1			
TP-308	CRA	SO-56394-DR-012510-1059	1/25/2010	4-6	925		1			
TP-308	SuITRAC	S-SO-56394-DR-012510-1059	1/25/2010	4-6	925			1		
TP-315	CRA	SO-56394-DR-012510-1060	1/25/2010	0-1	1015		1			
TP-315	CRA	SO-56394-DR-012510-1061	1/25/2010	4-6	1025		1			
TP-309	CRA	SO-56394-DR-012510-1062	1/25/2010	0-1	1115		1			
TP-309	CRA	SO-56394-DR-012510-1063	1/25/2010	3-4	1125		1			
TP-309	SuITRAC	S-SO-56394-DR-012510-1063	1/25/2010	3-4	1125			1		
TP-309	CRA	SO-56394-DR-012510-1064	1/25/2010	6-8	1145	MS/MSD	1			
TP-314	CRA	SO-56394-DR-012510-1065	1/25/2010	0-2	1310		1			
TP-314	CRA	SO-56394-DR-012510-1066	1/25/2010	6-8	1320		1			
TP-314	CRA	SO-56394-DR-012510-1067	1/25/2010	10-11	1330		1			
TP-312	CRA	SO-56394-DR-012510-1069	1/25/2010	0-2	1440		1			
TP-312	SuITRAC	S-SO-56394-DR-012510-1069	1/25/2010	0-2	1440			1		
TP-312	CRA	SO-56394-DR-012510-1070	1/25/2010	5-7	1500		1			
TP-312	CRA	SO-56394-DR-012510-1071	1/25/2010	5-7	1500	Duplicate				
SB-133	CRA	SO-56394-CB-102610-150	1/26/2010	0-1	0900	MS/MSD	1			
SB-133	CRA	SO-56394-CB-102610-149	1/26/2010	7-9	0905		1			
SB-133	CRA	SO-56394-CB-102610-151	1/26/2010	7-9	0910	Duplicate				
SB-137	CRA	SO-56394-CB-102610-152	1/26/2010	0-1	1015		1			
SB-137	CRA	SO-56394-CB-102610-153	1/26/2010	8-10	1020		1			
SB-137	SuITRAC	S-SO-56394-CB-102610-153	1/26/2010	8-10	1020			1		
SB-135	CRA	SO-56394-CB-102610-154	1/26/2010	0-1	1105		1			
SB-135	CRA	SO-56394-CB-102610-155	1/26/2010	8-10	1110		1			
SB-136	CRA	SO-56394-CB-102610-156	1/26/2010	0-1	1240		1			

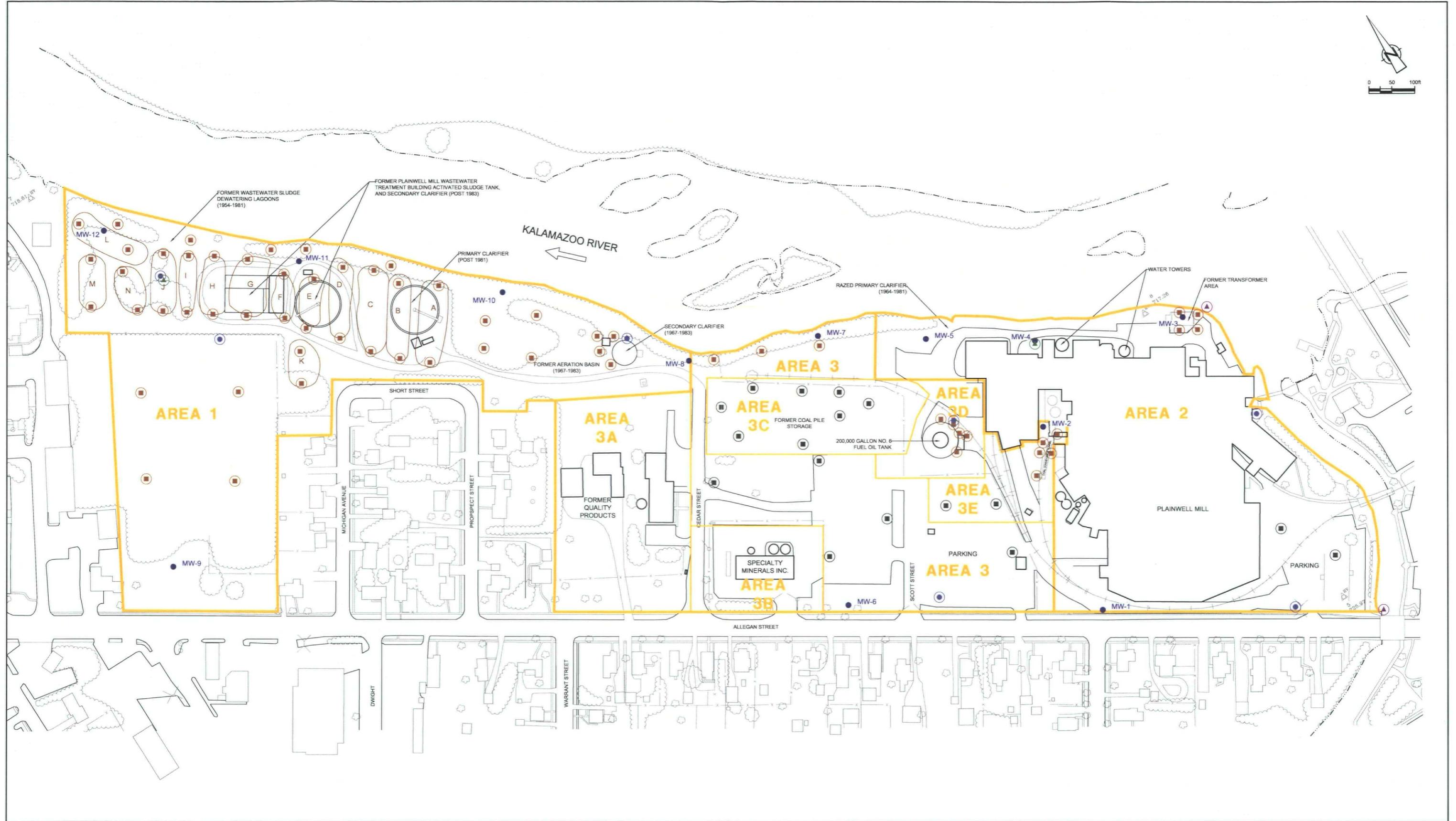
SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
SB-136	CRA	SO-56394-CB-102610-157	1/26/2010	0-1	1245	Duplicate				
SB-136	CRA	SO-56394-CB-102610-158	1/26/2010	8-10	1250		1			
SB-136	SuITRAC	S-SO-56394-CB-102610-158	1/26/2010	8-10	1250			1		
SB-134	CRA	SO-56394-CB-102610-159	1/26/2010	0-1	1340		1			
SB-134	CRA	SO-56394-CB-102610-160	1/26/2010	1.5-3.5	1345		1			
SB-134	SuITRAC	S-SO-56394-CB-102610-160	1/26/2010	1.5-3.5	1345			1		
SB-140	CRA	SO-56394-CB-102610-161	1/26/2010	0-1	1430		1			
SB-140	CRA	SO-56394-CB-102610-162	1/26/2010	8-10	1435		1			
SB-140	CRA	SO-56394-CB-102610-163	1/26/2010	8-10	1440	Duplicate				
SB-138	CRA	SO-56394-CB-102610-164	1/26/2010	0-1	1515		1			
SB-138	CRA	SO-56394-CB-102610-165	1/26/2010	8-10	1520		1			
SB-138	SuITRAC	S-SO-56394-CB-102610-165	1/26/2010	8-10	1520			1		
SB-141	CRA	SO-56394-CB-102610-166	1/26/2010	0-1	1610		1			
SB-141	CRA	SO-56394-CB-102610-167	1/26/2010	9-11	1615		1			
SB-141	SuITRAC	S-SO-56394-CB-102610-166	1/26/2010	0-1	1610			1		
TP-313	CRA	SO-56394-DR-012510-1072	1/26/2010	2-4	900		1			
TP-313	CRA	SO-56394-DR-012510-1073	1/26/2010	4-6	910		1			
TP-313	CRA	SO-56394-DR-012510-1074	1/26/2010	4-6	910	Duplicate				
TP-313	CRA	SO-56394-DR-012510-1075	1/26/2010	8-9	925		1			
TP-313	SuITRAC	S-SO-56394-DR-012510-1075	1/26/2010	8-9	925			1		
TP-311	CRA	SO-56394-DR-012510-1076	1/26/2010	0-2	1030		1			
TP-311	CRA	SO-56394-DR-012510-1077	1/26/2010	4-6	1045		1			
TP-310	CRA	SO-56394-DR-012510-1078	1/26/2010	1-2	1135		1			
TP-310	SuITRAC	S-SO-56394-DR-012510-1078	1/26/2010	1-2	1135			1		
TP-310	SuITRAC	SD-SO-56394-DR-012510-1078	1/26/2010	1-2	1135	Duplicate			1	
TP-310	CRA	SO-56394-DR-012510-1079	1/26/2010	8-10	1155		1			
SB-139	CRA	SO-56394-CB-012710-168	1/27/2010	0-1	900		1			
SB-139	CRA	SO-56394-CB-012710-169	1/27/2010	6-8	905		1			
SB-139	SuITRAC	S-SO-56394-CB-012710-168	1/27/2010	0-1	900			1		
SB-139	SuITRAC	SD-SO-56394-CB-012710-168	1/27/2010	0-1	900	Duplicate			1	
SB-321	CRA	SO-56394-CB-012710-170	1/27/2010	0-1	1000		1			
SB-321	CRA	SO-56394-CB-012710-171	1/27/2010	0-1	1005	Duplicate				
SB-321	CRA	SO-56394-CB-012710-172	1/27/2010	7-9	1010		1			
SB-301	CRA	SO-56394-CB-012710-173	1/27/2010	0-1	1050		1			
SB-301	CRA	SO-56394-CB-012710-174	1/27/2010	5.5-7.5	1055		1			
SB-301	CRA	SO-56394-CB-012710-175	1/27/2010	5.5-7.5	1100	Duplicate				
SB-302	CRA	SO-56394-CB-012710-176	1/27/2010	0-1	1120	MS/MSD	1			
SB-302	CRA	SO-56394-CB-012710-177	1/27/2010	6.75-8.75	1135		1			
SB-302	CRA	SO-56394-CB-012710-178	1/27/2010	8.75-9.75	1140		1			

SUBSURFACE SOIL SAMPLES continued										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
SB-302	SuITRAC	S-SO-56394-CB-012710-177	1/27/2010	6.75-8.75	1135			1		
SB-202	CRA	SO-56394-CB-012710-179	1/27/2010	0-1	1345	MS/MSD	1			
SB-202	CRA	SO-56394-CB-012710-180	1/27/2010	2-4	1350		1			
SB-202	SuITRAC	S-SO-56394-CB-012710-180	1/27/2010	2-4	1350			1		
SB-201	CRA	SO-56394-CB-012710-181	1/27/2010	0-1	1445		1			
SB-201	CRA	SO-56394-CB-012710-182	1/27/2010	2-4	1450		1			
SB-201	SuITRAC	S-SO-56394-CB-012710-182	1/27/2010	2-4	1450			1		
SB-204	CRA	SO-56394-CB-012710-183	1/27/2010	0-1	1520		1			
SB-204	CRA	SO-56394-CB-012710-184	1/27/2010	2-4	1540		1			
SB-204	SuITRAC	S-SO-56394-CB-012710-183	1/27/2010	0-1	1520	MS/MSD		1		1
SB-203	CRA	SO-56394-CB-012710-185	1/27/2010	0-1	1550		1			
SB-203	CRA	SO-56394-CB-012710-186	1/27/2010	2.5-4.5	1555		1			
SB-203	CRA	SO-56394-CB-012710-187	1/27/2010	2.5-4.5	1600	Duplicate				
SB-311	CRA	SO-56394-CB-012810-188	1/28/2010	0-1	910		1			
SB-311	CRA	SO-56394-CB-012810-189	1/28/2010	13-15	915		1			
SB-311	SuITRAC	S-SO-56394-CB-012810-189	1/28/2010	13-15	915			1		
SB-311	SuITRAC	SD-SO-56394-CB-012810-189	1/28/2010	13-15	915	Duplicate			1	
SB-309	CRA	SO-56394-CB-012810-190	1/28/2010	0-1	1005		1			
SB-309	CRA	SO-56394-CB-012810-191	1/28/2010	0-1	1010	Duplicate				
SB-309	CRA	SO-56394-CB-012810-192	1/28/2010	12.5-14.5	1000		1			
SB-309	SuITRAC	S-SO-56394-CB-012810-190	1/28/2010	0-1	1005			1		
SB-310	CRA	SO-56394-CB-012810-193	1/28/2010	0-1	1030		1			
SB-310	CRA	SO-56394-CB-012810-194	1/28/2010	12-14	1045	MS/MSD	1			
SB-312	CRA	SO-56394-CB-012810-195	1/28/2010	0-1	1135		1			
<b>Totals</b>							<b>209</b>	<b>53</b>	<b>6</b>	<b>3</b>

VAS GROUNDWATER SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SuITRAC sample count	SuITRAC Duplicate Count	SuITRAC MS/MSD count
VA-1	CRA	VAS-56394-DR-011110-1001	1/11/2010	10-14	1600		1			
VA-1	SuITRAC	S-VAS-56394-DR-011110-1001	1/11/2010	10-14	1600			1		
VA-1	CRA	VAS-56394-DR-011210-1002	1/12/2010	14-18	945		1			
VA-1	CRA	VAS-56394-DR-011210-1003	1/12/2010	18-22	1055		1			
VA-1	CRA	VAS-56394-DR-011210-1004	1/12/2010	18-22	1055	Duplicate				
VA-1	CRA	VAS-56394-DR-011210-1005	1/12/2010	22-26	1345		1			
VA-1	CRA	VAS-56394-DR-011210-1006	1/12/2010	26-30	1530		1			
VA-1	CRA	VAS-56394-DR-011310-1007	1/13/2010	30-34	840		1			
VA-1	CRA	VAS-56394-DR-011310-1008	1/13/2010	34-38	1010		1			
VA-1	SuITRAC	S-VAS-56394-DR-011310-1008	1/13/2010	34-38	1010			1		
VA-1	SuITRAC	SD-VAS-56394-DR-011310-1008	1/13/2010	34-38	1010	Duplicate			1	
VA-1	CRA	VAS-56394-DR-011310-1009	1/13/2010	38-42	1145		1			
VA-2	CRA	VAS-56394-DR-011310-1012	1/13/2010	6-10	1635		1			
VA-2	CRA	VAS-56394-DR-011410-1013	1/14/2010	10-14	845		1			
VA-2	SuITRAC	S-VAS-56394-DR-011410-1014	1/14/2010	10-14	845			1		
VA-2	CRA	VAS-56394-DR-011410-1014	1/14/2010	14-18	1040		1			
VA-2	CRA	VAS-56394-DR-011410-1015	1/14/2010	14-18	1040	Duplicate				
VA-2	CRA	VAS-56394-DR-011410-1016	1/14/2010	18-22	1250		1			
VA-2	CRA	VAS-56394-DR-011410-1017	1/14/2010	22-26	1400		1			
VA-2	CRA	VAS-56394-DR-011810-1018	1/18/2010	26-30	955		1			
VA-2	SuITRAC	VAS-56394-DR-011810-1018	1/18/2010	26-30	955			1		
VA-2	CRA	VAS-56394-DR-011810-1019	1/18/2010	30-32	1135		1			
Totals							15	4	1	

SURFACE WATER SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
SW-1	EV	SW-56394-EV-011910-1028	1/19/2010				1			
SW-2	EV	SW-56394-EV-011910-1029	1/19/2010				1			
Totals							2			
SURFACE SOIL SAMPLES										
SAMPLE LOCATION	SAMPLER	SAMPLE ID	DATE	INTERVAL, FT	SAMPLE TIME	Field Duplicates or MS/MSD	CRA sample count	SulTRAC sample count	SulTRAC Duplicate Count	SulTRAC MS/MSD count
SS-105	CRA	SS-56394-EV-011210-011	1/12/2010	0-1			1			
SS-103	CRA	SS-56394-EV-011210-012	1/12/2010	0-1	1320		1			
SS-103	SulTRAC	S-SS-56394-EV-011210-012	1/12/2010	0-1	1320			1		
SS-102	CRA	SS-56394-EV-011210-013	1/12/2010	0-1	1345		1			
SS-100	CRA	SS-56394-EV-011210-010	1/12/2010	0-1	1415		1			
SS-107	CRA	SS-56394-EV-011210-015	1/12/2010	0-1	1120		1			
SS-101	CRA	SS-56394-EV-011310-021	1/13/2010	0-1	1135		1			
SS-101	SulTRAC	S-SS-56394-EV-011310-021	1/13/2010	0-1	1135			1		
SS-104	CRA	SS-56394-EV-011310-022	1/13/2010	0-1	1325		1			
SS-106	CRA	SS-56394-EV-011310-023	1/13/2010	0-1	1345		1			
SS-106	CRA	SS-56394-EV-011310-024	1/13/2010	0-1	1350	Duplicate				
Total							8	2	0	0

**ATTACHMENT 1**  
**CRA SAMPLE LOCATION FIGURES**  
**(Four Sheets)**



The legend consists of seven entries, each with a short horizontal line symbol followed by the feature name. The symbols are: a thick yellow line for 'AREA BOUNDARY'; a dashed black line for 'SHORELINE'; a solid black line for 'FORMER WASTEWATER SLUDGE DEWATERING LAGOONS'; a line with 'X' marks for 'FENCELINE'; a line with vertical tick marks for 'RAILWAY'; and a wavy line for 'VEGETATION'.

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY																																																																	
																																																																	
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No	Revision	Date	Initials																																																														

11

## SITE-WIDE PROPOSED PHASE II SAMPLING LOCATIONS

## PHASE II REMEDIAL INVESTIGATION WORK PLAN

FORMER PLAINWELL, INC MILL PROPERTY  
PLAINWELL, MICHIGAN



**CONESTOGA-ROVERS & ASSOCIATES**

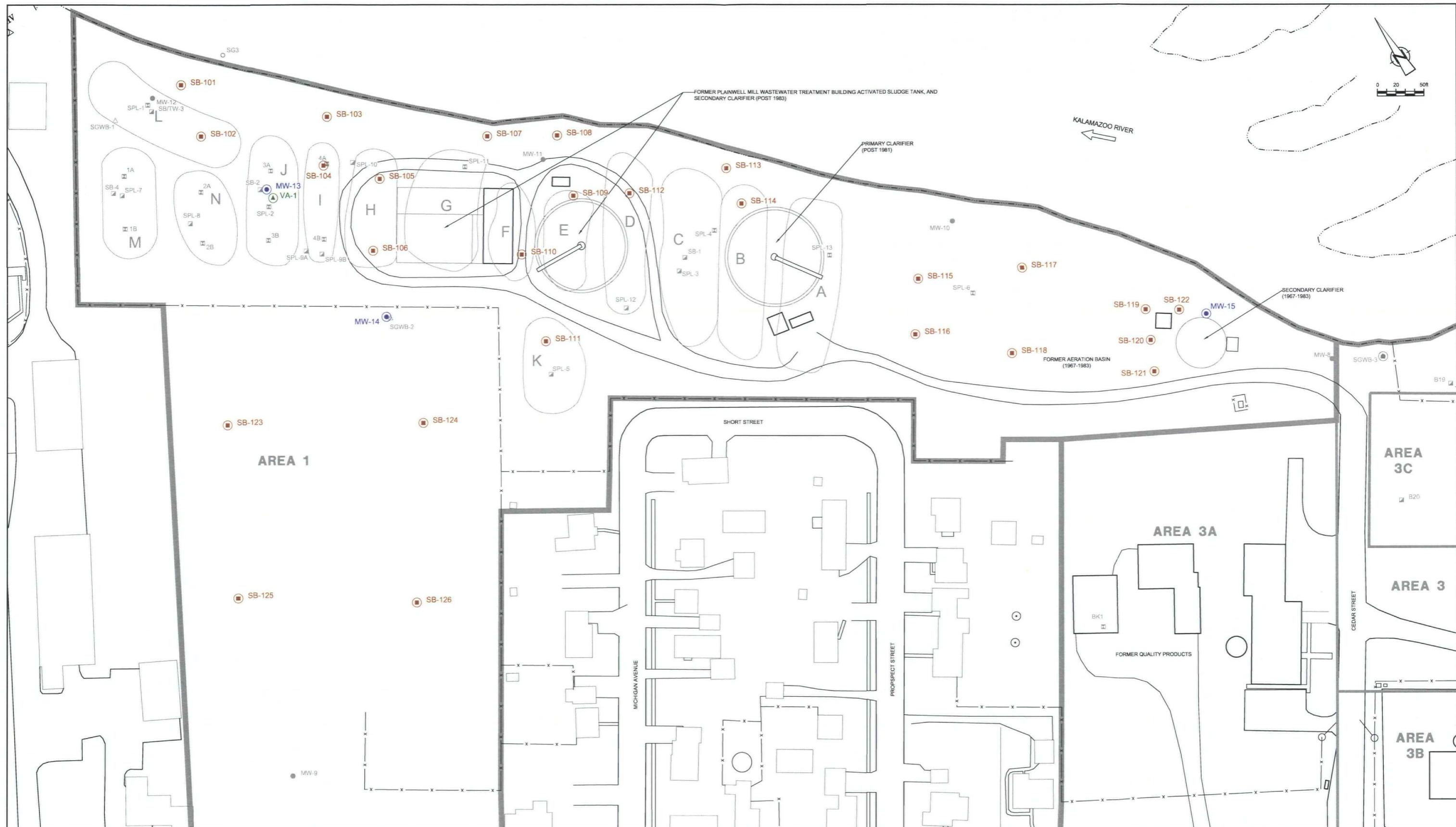
Source Reference: \_\_\_\_\_ Date: \_\_\_\_\_

MAY 2009

Project Manager: Reviewed By: Designed By: Drawn By:  
G. CARLU F. STAHL C. JACOBI

Scale: Project No: Report No: Drawing No:

1:100 056394-04 002 FIGURE 5.1


**LEGEND**

—	AREA BOUNDARY
- - - - -	SHORELINE
—	FORMER WASTEWATER SLUDGE DEWATERING LAGOONS
—	FENCELINE
—	VEGETATION
●	PROPOSED MONITORING WELL LOCATION
■	PROPOSED SOIL BORING LOCATION
△	PROPOSED VERTICAL AQUIFER TESTING LOCATION
□	PREVIOUS SOIL SAMPLE LOCATION
■	PREVIOUS SOIL BORING LOCATION
●	PREVIOUS MONITORING WELL LOCATION
■	PREVIOUS TEMPORARY WELL LOCATION
△	PREVIOUS GROUNDWATER SAMPLE LOCATION
○	PREVIOUS STAFF GAUGE LOCATION (APPROXIMATE)

NOTE: LOCATIONS IN WOODED AREAS ARE APPROXIMATE, ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

No	Revision	Date	Initial

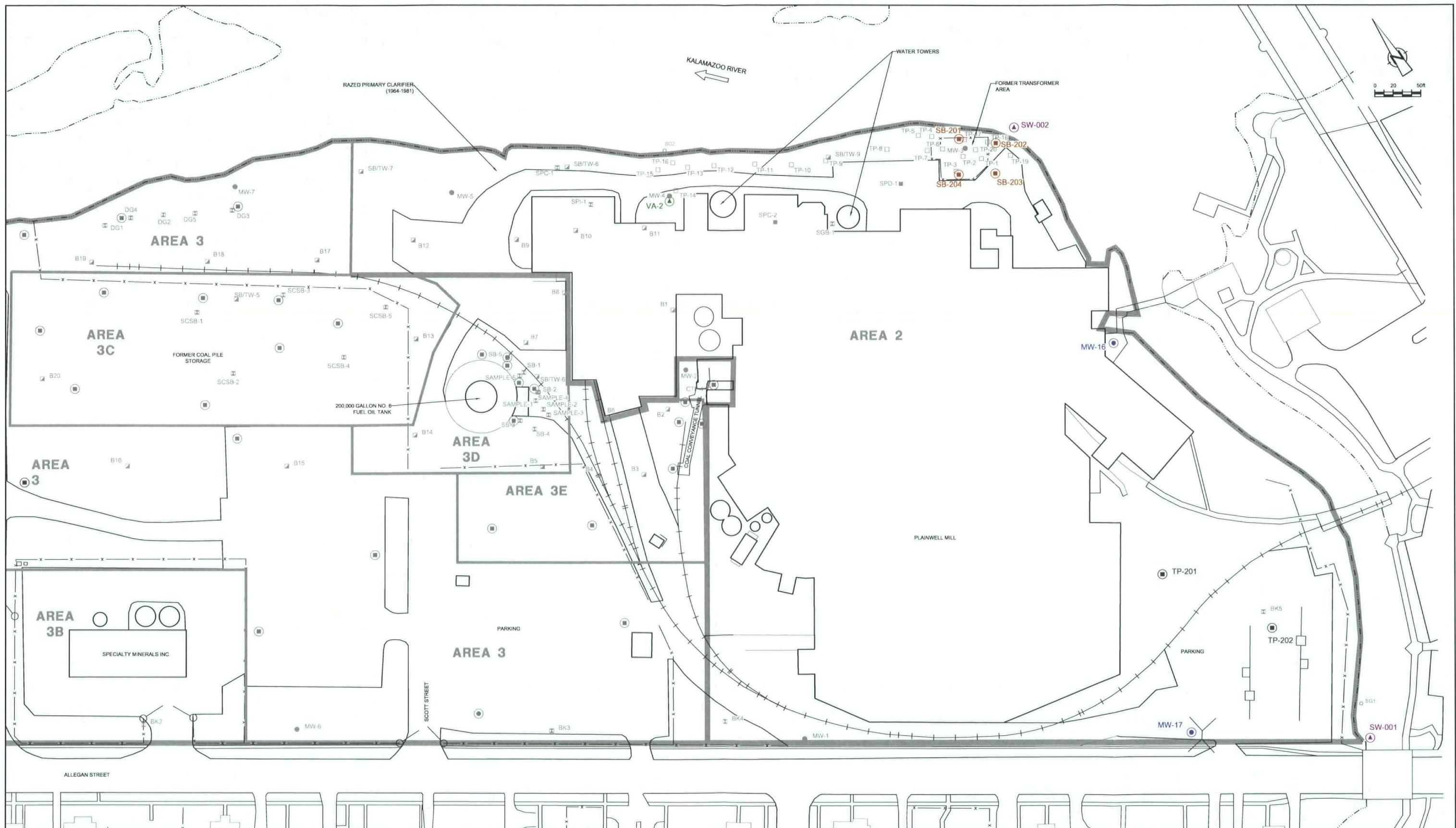
Approved

**AREA 1 PROPOSED PHASE II SAMPLE LOCATIONS**
**PHASE II REMEDIAL INVESTIGATION WORK PLAN**
**FORMER PLAINWELL, INC MILL PROPERTY  
PLAINWELL, MICHIGAN**

**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:	RMT PROJ. 00-0512.03	Date:	MAY 2009
Project Manager:	G. CARLI	Reviewed By:	E. STAHL
Scale:	1:100	Designed By:	C. JACOBI

Project No: 056394-04 Report No: 002 Drawing No: FIGURE 5.2



**LEGEND**

	AREA BOUNDARY
	SHORELINE
	RAILWAY
	FENCELINE
	VEGETATION
	PROPOSED MONITORING WELL LOCATION
	PROPOSED SOIL BORING LOCATION
	PROPOSED SURFACE WATER SAMPLE LOCATION
	PROPOSED TEST PIT LOCATION
	PROPOSED VERTICAL AQUIFER TESTING LOCATION

APPENDIX

## AREA 2 PROPOSED PHASE II SAMPLE LOCATIONS

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PHASE II REMEDIAL INVESTIGATION WORK PLAN

**FORMER PLAINWELL, INC MILL PROPERTY  
PLAINWELL, MICHIGAN**



**ONESTOGA-BOYERS & ASSOCIATES**

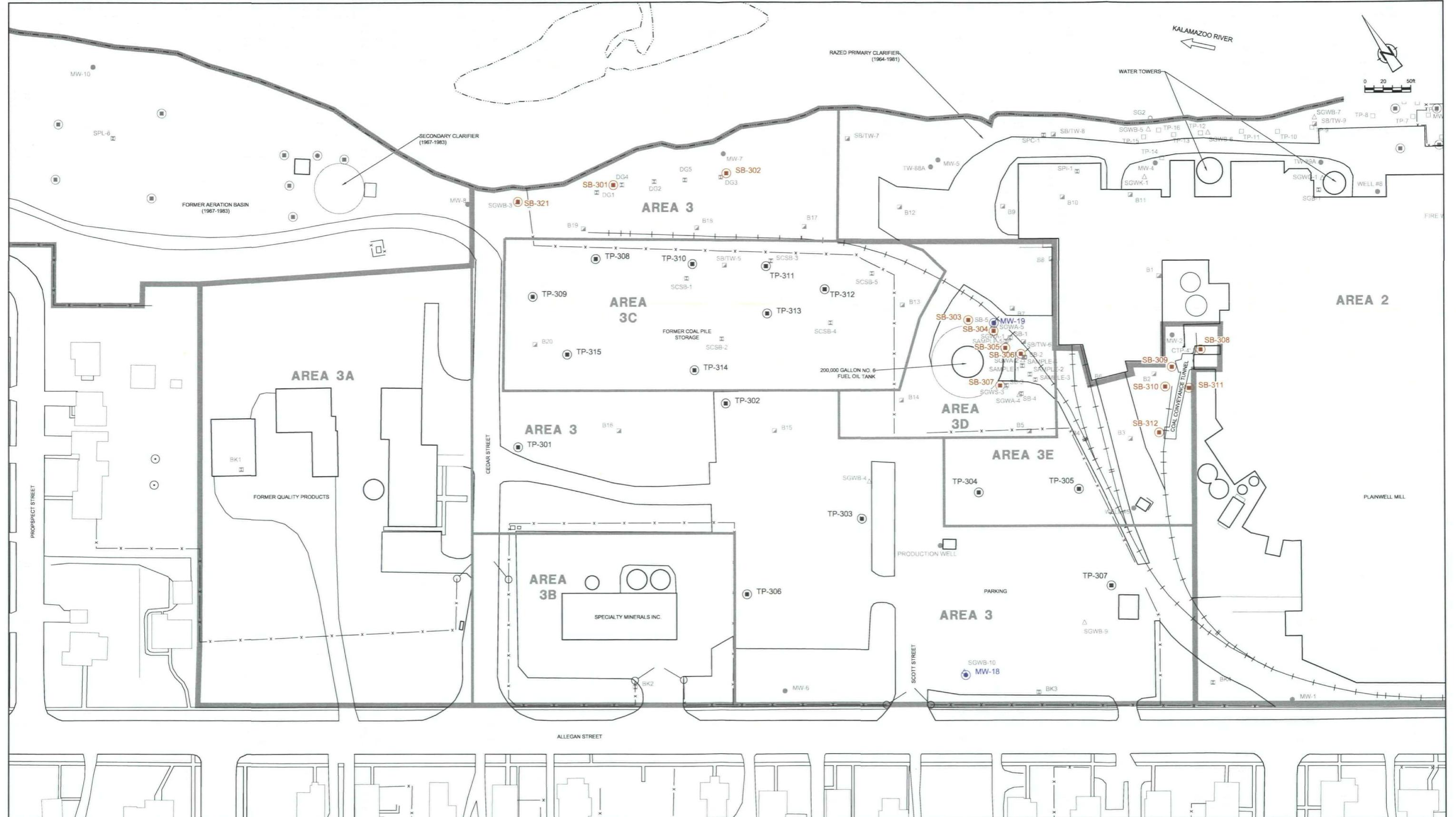
Digitized by srujanika@gmail.com

Date: MAY 2009

viewed By: \_\_\_\_\_ Designed By: \_\_\_\_\_ Drawn By: \_\_\_\_\_

E. STAHL C. JACOBI

Project No.: Report No.: Drawing No.:  
056394-04 002 FIGURE 5.3



The legend contains the following entries:

- AREA BOUNDARY**: Represented by a thick grey horizontal line.
- SHORELINE**: Represented by a dashed grey horizontal line.
- RAILWAY**: Represented by a horizontal line with vertical tick marks at regular intervals.
- FENCELINE**: Represented by a horizontal line with 'x' marks at both ends.
- VEGETATION**: Represented by a wavy grey line.
- PROPOSED MONITORING WELL LOCATION**: Represented by a blue circle with a white dot.
- PROPOSED SOIL BORING LOCATION**: Represented by a red circle with a white square.
- PROPOSED TEST PIT LOCATION**: Represented by a black circle with a white circle.

Ad

## AREA 3 PROPOSED PHASE II SAMPLE LOCATIONS

## PAGE II REMEDIAL INVESTIGATION WORK PLAN

MER PLAINWELL, INC MILL PROPERTY  
PLAINWELL, MICHIGAN



**ONESTOGA-ROVERS & ASSOCIATES**

Digitized by srujanika@gmail.com

MT PROJ. 00-05121.03 MAY 2009

Reviewed By: E. STANLEY Designed By: Drawn By: C. JACOBI

Project No: Report No: Drawing No:

056394-04 002 FIGURE 5.4

FIGURE 5.4